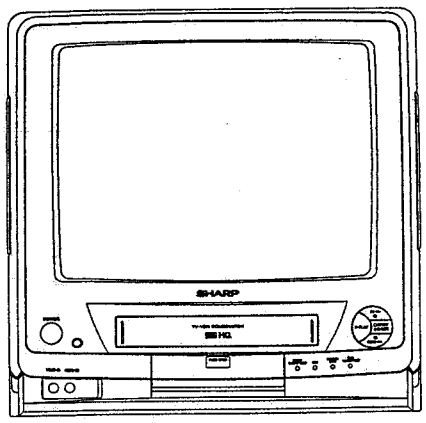
SHARP SERVICE MANUAL

S25L513VT-G60

TV/VCR COMBINATION

Chassis No. VU-1



13VT-G60

13VT-G60
13VT-G80
13VT-G100
13VT-G120

MODELS

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP ELECTRONICS CORPORATION

Service Headquarters : Sharp Plaza, Mahwah, New Jersey 07430-2135

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the receiver is operating.
4. The chassis in this receiver has two ground systems which are separated by insulation material. The non-isolated (hot) ground system is for the +B voltage regulator circuit and the horizontal output circuit. The isolated ground system is for the low +B DC voltages and the secondary cicuit of the high voltage transformer.
   To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.

CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 4A-125V FUSE.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC cord should be disconnected from AC outlet.)

1. Note that the picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

X-RADIATION AND HIGH VOLTAGE LIMITS

1. All service personnel should be aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation if the high voltage is as specified in the "High Voltage Check" instructions. It is only when high voltage is excessive that X-radiation is capable of penetrating the picture tube shell which includes lead in glass material. The important precaution is to keep high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter. The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value – no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and, under certain conditions, may produce radiation in excess of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring high voltage with a meter to be certain that it does not exceed the specified value and is regulated correctly.
5. Do not use a picture tube other than that specified, and do not make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessively high voltage, avoid being unnecessarily close to the receiver. Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

IMPORTANT SERVICE SAFETY PRECAUTION
(Continued)

FIRE AND SHOCK HAZARD CHECKS
Before returning the receiver to the user, perform the following safety checks:

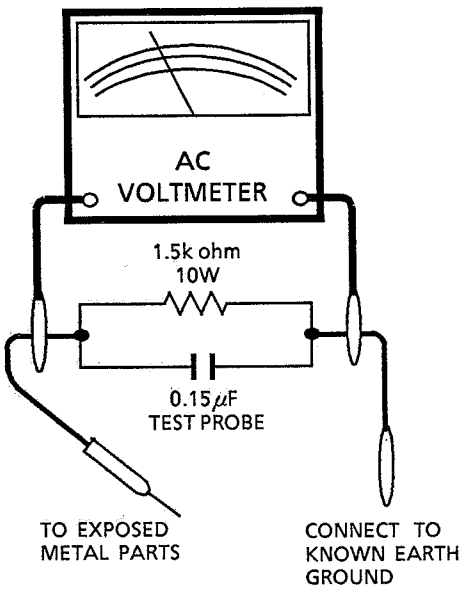
1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current leakage in the following manner:

- Plug the AC cord directly into a 120-volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as an electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.
- Make contact with the test probe on all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

  All checks must be repeated with the AC cord plug connection reversed (if necessary, a non-polarized adapter plug may be used only for the purpose of completing these checks).

  Any current measured must not exceed 0.5 milliamps.

  Any measurements not within the limits outlined above are indicative of potential shock hazard and corrective action must be taken before returning the set to the customer.



SAFETY NOTICE
Many electrical and mechanical parts in television receivers have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the *Replacement Parts Lists* and *Schematic Diagrams*. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

ELECTRICAL SPECIFICATIONS

■ TV SECTION

POWER INPUT:	120 V AC 60 Hz
POWER RATING:	73W
PICTURE SIZE	
Width:	38.8cm
Height:	38.0cm
Depth:	39.5cm
CONVERGENCE:	Magnetic
SWEEP DEFLECTION:	Magnetic
FOCUS:	Hi-Bi-Potential Electrostatic
INTERMEDIATE FREQUENCIES	
Picture IF Carrier Frequency:	45.75 MHz
Sound IF Carrier Frequency:	41.25 MHz
Color Sub-Carrier Frequency:	42.17 MHz (Nominal)
AUDIO POWER OUTPUT RATING:	1.3 W (at 10% Distortion)
SPEAKER	
Size:	8cm (3")P.M.,0.34oz. Magnet
Voice Coil Impedance:	8 ohm at 400 Hz
VHF/UHF ANTENNA INPUT IMPEDANCE:	75ohm unbalanced
TUNING RANGES	
VHF-Channels:	2 thru 13
UHF -Channels:	14 thru 69
CATV Channels:	1,14 thru 125 (EIA,Channel Plan)

■ VCR SECTION

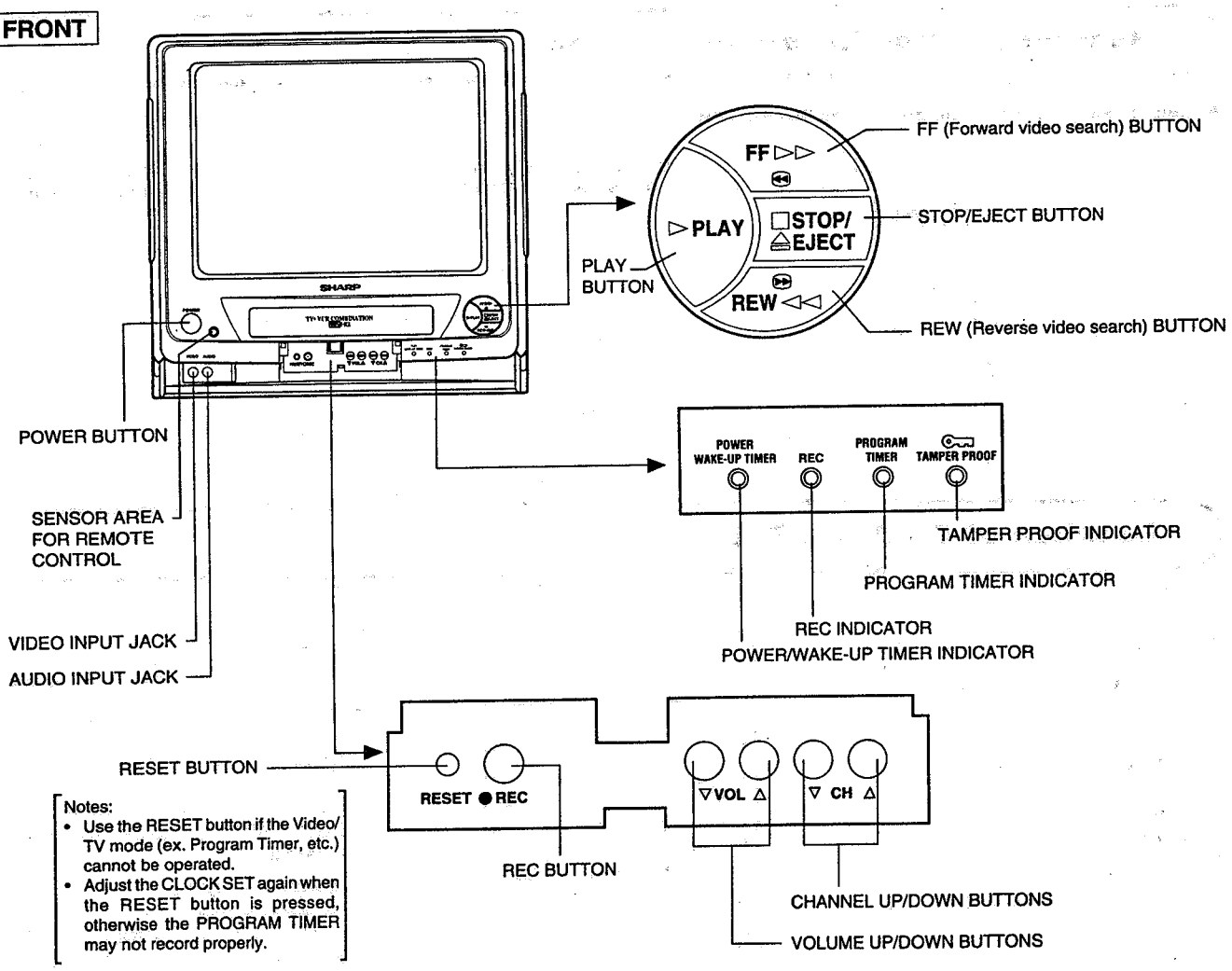
Format:	VHS Standard
Video Recording System:	Rotary Two-Head Helical Scanning
Number of Video Heads:	2pcs.
Video Signal Standard:	NTSC Color System
Tape Width:	12.7mm (1/2inch)
Tape Speed:	(SP)33.35mm/sec (1.31i.p.s) (LP)16.67mm/sec (0.66i.p.s) Play back only (EP)11.12mm/sec (0.44i.p.s)
Maximum Recording Time:	(SP)160min (T-160) (EP)480min (T-160)
Video Input:	0.5 to2.0Vp-p, 75 ohm unbalanced
Audio Input:	-8dB, 47k ohm unbalanced (0dB-0.775Vrms)
Operating Temperature:	5° C to 40° C (41°F to104°F)
Storage Temperature:	-20°C to 60°C (-4°F to140°F)

Specifications are subject to change without prior notice.

LOCATION OF USER'S CONTROL

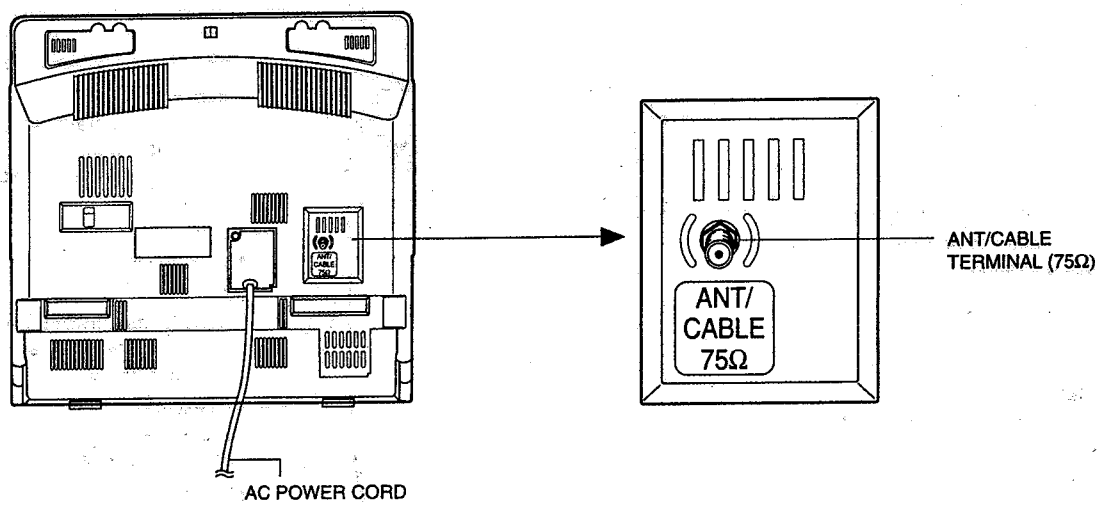
Model 13VT-G60

FRONT



Notes:
- Use the RESET button if the Video/ TV mode (ex. Program Timer, etc.) cannot be operated.
- Adjust the CLOCK SET again when the RESET button is pressed, otherwise the PROGRAM TIMER may not record properly.

REAR

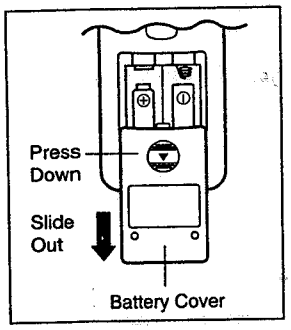


LOCATION OF USER'S CONTROL (Continued)

Model 13VT-G60

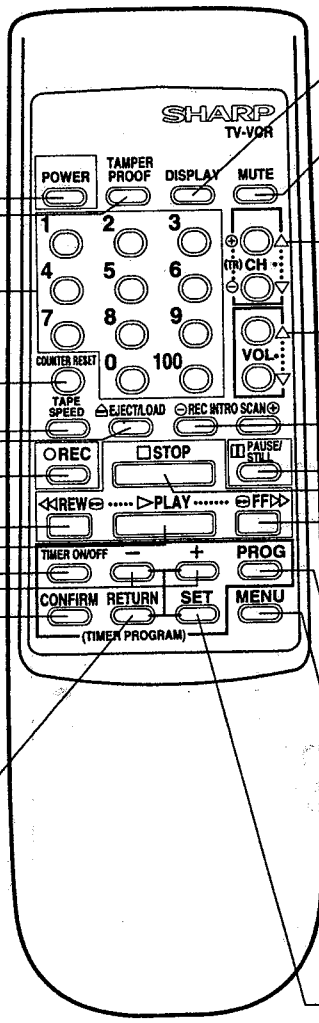
Remote Control Battery Installation

■ **Before using the television, prepare the Remote Control.**



- Remove the battery cover as shown and insert two batteries (size "AA") making sure the polarity matches the (+) and (–) marks inside the battery compartment.

Location of Control's Buttons



POWER ON-OFF

TAMPER PROOF

CHANNEL SELECT

COUNTER RESET
- Used to reset the tape counter when the tape counter is displayed.

TAPE SPEED
- Used to select the recording tape speed.

EJECT/LOAD
- Used to eject or load a cassette tape.

REC
- Used to record a program.

REW
- Used to rewind the tape or to conduct Reverse Video Search during Playback mode.

PLAY
- Used for tape playback.
- Used to cancel the PAUSE/STILL mode and return to normal playback operation.

TIMER ON/OFF

–, +

CONFIRM
- Used to confirm the programmable setting.

RETURN

DISPLAY
- Used to change the On Screen Display.

MUTE
Press → mute sound.
Press again → restores sound to previous level.
Press the MUTE button to enter the CLOSED CAPTION (caption ch1) mode automatically.

CHANNEL UP/DOWN (TRACKING ⊕/⊖)
- Used to select the CHANNEL.
- Used to adjust the TRACKING while playing the tape.

VOLUME UP-DOWN

REC INTRO SCAN (⊖/⊕)
- Pressing the (⊖/⊕) buttons to enter the REC INTRO SCAN mode.

PAUSE/STILL
- Used to temporarily stop the tape during recording mode.
- Used to display a still picture during playback mode.

STOP
- Used to stop the tape.

FF
- Used to fast forward the tape or to conduct Forward Video Search during Playback mode.

PROGRAM
- Press the button to enter the Timer Recording mode.

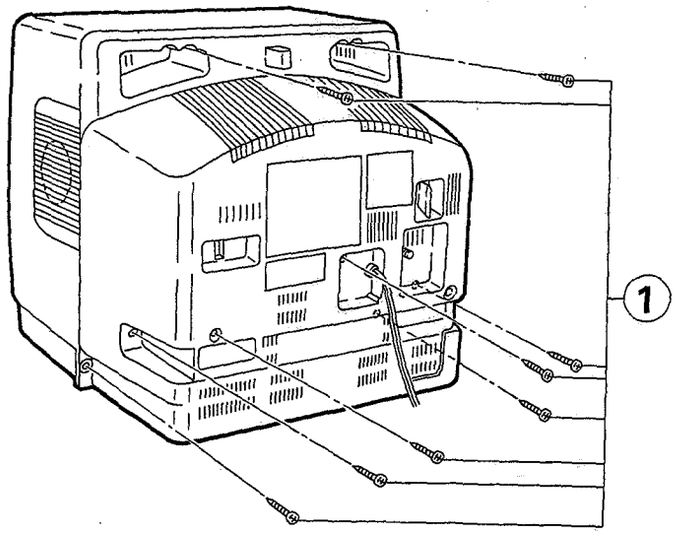
MENU
- Used to select the menu screen.

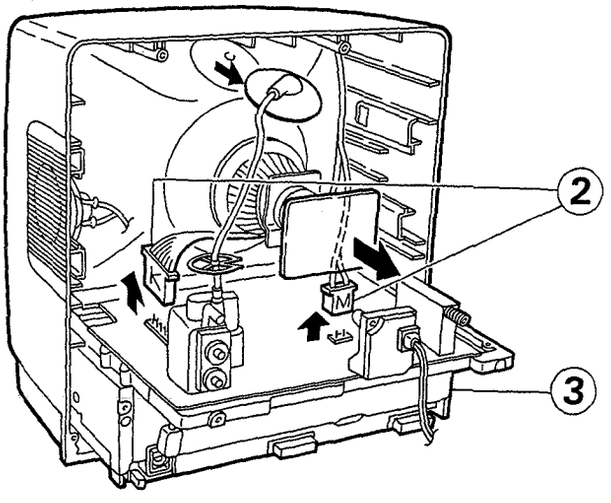
SET

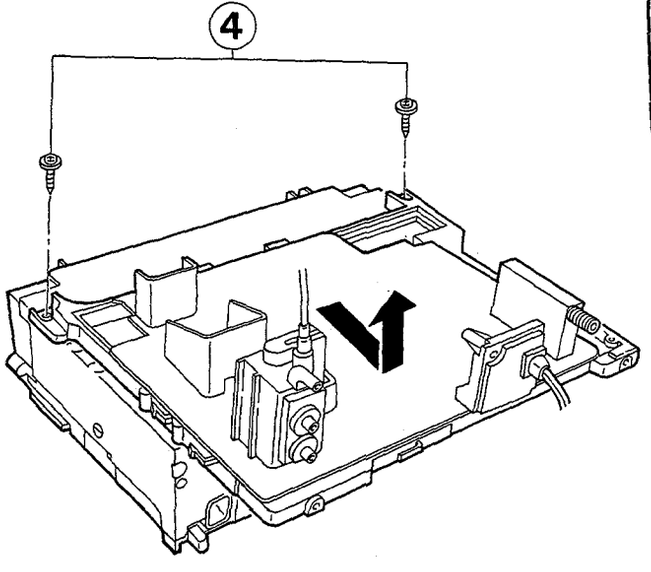
DISASSEMBLY AND REASSEMBLY

■ TV SECTION

1. Remove the eight screws off the rear cover.
2. Disconnect the K and M connectors from the main PWB and disconnect the anode cap and the CRT PWB unit from the CRT.
3. After disconnect the coating earth from the CRT unit and take out the unit.
4. Remove the two screws from the main PWB and separate the PWB from the video unit.

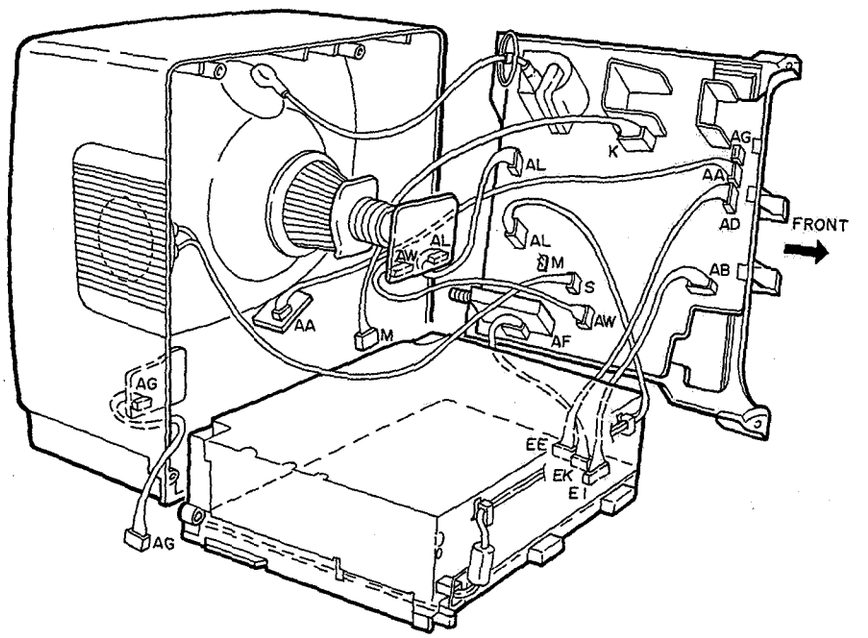






DISASSEMBLY AND REASSEMBLY (Continued)

5. Remove the CRT PWB, degaussing coil connector M and front power switch remote control PWB. Place the main PWB upright.
6. Reconnect the CRT PWB. Put the main PWB and the VCR unit together as shown below. Keep the front power switch remote control PWB, speakers and degaussing coil connector M off position.



INSTALLATION AND SERVICE INSTRUCTIONS

Note: (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdriver or TV alignment tools.
(2) Before performing adjustment, TV set must be on at least 15 minutes.

CIRCUIT PROTECTION

The receiver is protected by a 4.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, or + B system, test the X-Rediation protector circuit to ascertain proper operation as follows:

1. Apply 120V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and using the remote controller, set the brightness level and contrast level to maximum.
3. Check the voltage of test point TP654. (It's voltage should be about 11.0V DC.)
4. Apply external 14.0V DC at TP654 by using an external DC supply, The increased voltage will cause the horizontal oscillator to stop and the TV to shut off.
5. To re-start the osillator, remove the external DC power supply and short together TP655 and TP656. Once the TV set operates normally again, remove the short between TP655 and TP656.
6. Connect TP651 to TP653, and See that the operation of horizontal oscillator then stops. Next, make sure that the set operates Wiht a normal picture by the method of step 5.
7. If the operation of the horizontal oscillator does not stop in step 4 and 6 the circuit must be repaired before teh set is returned to the customer.

HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter between ground and anode.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with strong air signal or properly tuned in test signal.
3. Set to Service mode on, service No. S21, and bus data 1(Y-mute on).
4. The voltage should be approximately 23.5kV (at zero beam).
   If a correct reading cannot be obtained, check circuitry for malfunctioning components.
   Upon completion of voltage check, readjust screen control for proper operation and set S851 to center position (cut off mode).

The G-series SHARP TV/VCR COMBINATION have most of the analog setup adjustments eliminated. Coil and variable resistor adjustments are now performed digitally by using the remote transmitter or set's volume and channel change function buttons.

Note: There are still a few analog adjustments in the G-series such as 120V adjust, focus, master screen voltage and coils in the picture if/detector circuit.

Follow the steps below whenever service adjustment is required. See table "B" to determine if service adjustments are required.

1.Service mode -

Before putting unit into the service mode, check, that customer adjustments are in the normal mode. use the reset function in the video adjust menu to ensure customer controls are in their proper (reset) position.

To enter the service mode -

Momentarily short R2010 to GND (see figure A).

CAUTION: When momentarily shorting R2010 to GND, be aware that as these test points are shorted they toggle between service and normal. when successfully entered, the service mode will be displayed as shown in figure "B". The "SEVICE MODE" figure the top line stands for service adjustment and the number following "SEVICE MODE" is the service adjustment number (see figure "B"). the second line from the top item which stands for data,followed by a number which is the digital value of the adjustment.

3.Data number selection

Press the volume up or down button to adjust the data number in the lower right hand side of the screen.

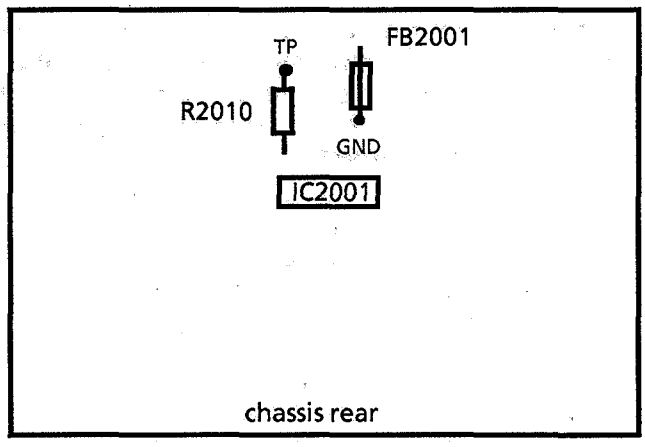


Figure A

To exit service mode-

Turn off the power or unplug the set.

2. Service number selection

Once in the service mode, press the channel up or channel down button on the remote transmitter or at the set. the "SERVICE MODE" number (service adjustment number) will vary in increments of one, from 1 to 25 (table"A") . Select the item you wish to adjust.

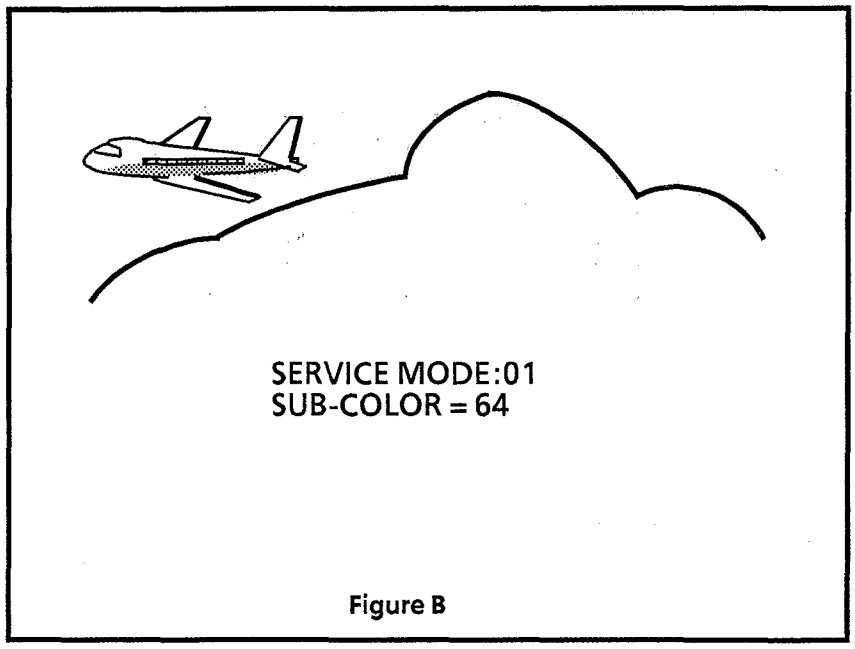


Figure B

Table - A

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT COMMENTS
		INTIAL VALUE	RANGE	
S1	SUB-COLOR	45	40-87	
S2	SUB-TINT	64	40-87	
S3	SUB-BRIGHTNESS	64	40-87	
S4	SUB-PICTURE	40	40-87	
S5	SHARPNESS	32	16-47	
S6	VERTICAL PHASE	0	0-7	
S7	V-AMP	32	0-63	
S8	H-PHASE	20	8-23	
S9	RF-AGC	50	0-63	
S10	VCO	60	0-127	
S11	R CUT-OFF	0	0-255	
S12	G CUT -OFF	0	0-255	
S13	B CUT-OFF	0	0-255	
S14	G GAIN	128	0-255	
S15	B GAIN	128	0-255	
S16	60Hz	0	0-1	
*S17	TRAP	0	0-1	
*S18	AFC	1	0-1	
S19	WHITE PEAK LIMITER	1	0-1	
*S20	BLANKING	0	0-1	
S21	Y-MUTE	1	0-3	"0" = Normal raster "1" = no"Y" "2" = Test mode "3" = No Vertical
* S22	BALANCE	32	16-48	
S23	AUDIO-SW	0	0-1	
S24	VIDEO-SW	0	0-1	
S25	CAPTION POSITION			

*No adjustment is required due to proper setting being made by IC2001 automatically.

Table - B

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		×	Data is stored in IC2002.
IC201	×		The adjustment is needed to compensate for characteristics of parts including IC201.
IC2002	×		Initial setting values are written from IC2001.Adjust for best results.
CRT	×		Adjust items related to picture tube only.

■ Service adjustment

VCO Adjustment

1. Connect a digital voltmeter between pin 44 of IC201 and ground.
2. Select a good local channel.
3. Enter the service mode. select adjustment "S10" and data value "D60".
4. Adjust the VCO coil L204 so that the digital voltmeter reads 4.0 volts.
5. Adjustment is complete, remove the voltmeter, return to "normal" mode.

RF AGC Adjustment

1. Have unit receive a good local channel.
2. Enter the service mode and select service adjustment "S9".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

NOTE 1 : You will have to come out of the service mode to select another channel.

NOTE 2 : Setting the data to "0" will produce a black raster.

Screen adjustment

1. Connect a digital voltmeter between TP852 and TP853 on the CRT socket PWB.
   ※:These test points may not be provided.
   Then connect the voltmeter to both ends of R852 located near Q852 on the foil side.
2. Select a good local channel.
3. Enter the service mode and select service adjustment "S1" and set the data value to "0" to set the color level to minimum.You may skip this step if you selected a B/W picture or monoscope pattern.
4. Select service adjustment "S21" and adjust the data value to "1" this turns off the luminance signal (Y-mute) .
5. Select service adjustment "S3" and adjust data value to obtain 0.15volts on the digital voltmeter.
6. Adjust the master screen cotrol untill raster darkens to the point where raster is barely seen.
7. Adjust service adjustments "S11" red,"S12" green and "S13" blue to obtain a good grey scale with normal whites at low brightness level.
8. Select service adjustment "S21" and reset data to" 0" Select service adjustment "S1" and reset data to obtain normal color level.
9. Remove digital voltmeter. reset master screen cotrol to obtain normal brightness range.

White balance adjustment

1. Have unit receive a good local channel.
2. Enter the service mode. select service adjustment "S1" and set to "0" (minimum color) . "S1" does not have to be adjusted if you selected a B/W picture or monoscope pattern.
3. Alternately adjust service adjustment data of "S14" and "S15" untill a good grey scale with normal whites is obtained.
4. Select service adjustment "S1"and adjust data to obtain normal color level.

Sub-picture adjustment

1. Have unit receive a good local channel.
2. Make sure the customer picture control is set to maximum.
3. Enter the service mode and select service adjustment "S4".
4. Adjust the data value to achieve normal contrast range.

Sub-Tint Adjustment

1. Have unit receive a good local channel.
2. Set customer tint control to center of it's range.
3. Enter the service mode and select service adjustment "S2".
4. Adjust "S2" data value to obtain normal flesh tones.

Sub-color adjustment

1. Have unit receive a good local channel.
2. Make sure the customer color control is set to center position.
3. Enter the service mode and select service adjustment "S1".
4. Adjust "S1"data value to obtain normal color level.

Sub-brightness adjustment

1. Have unit receive a good local channel.
2. Make sure the customer brightness control is set to center position.
3. Enter the service mode and select service adjustment "S3".
4. Adjust "S3"data value to obtain normal brightness level.

Vertical-size adjustment

1. Have unit receive a good local channel.
2. Enter the service mode and select service adjustment "S7".
3. While observing the top and bottom of the screen, adjust "S7" data value to proper vertical size and linearity.

Horizontal position adjustment

1. Have unit receive a good local channel.
2. Enter the service mode and select service adjustment "S8".
3. Adjust "S8" data value so that picture is centered.

Caption position adjustment (horizontal)

1. Have unit receive a good local channel.
2. Enter the service mode and select service adjustment "S25".
3. A black text box appears on the screen (see figure C).
4. Adjust "S25" data value so that text box is positioned in the center of the screen.

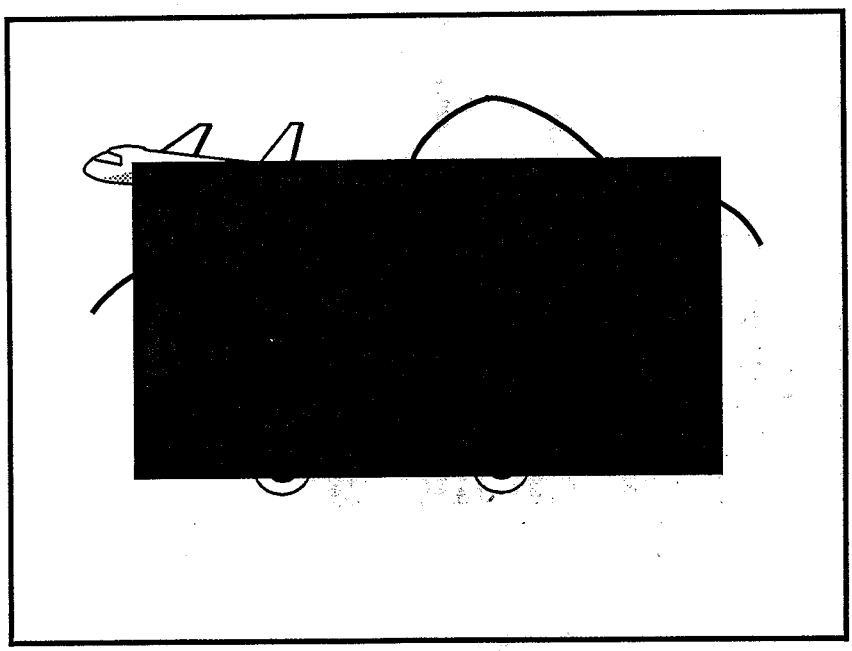
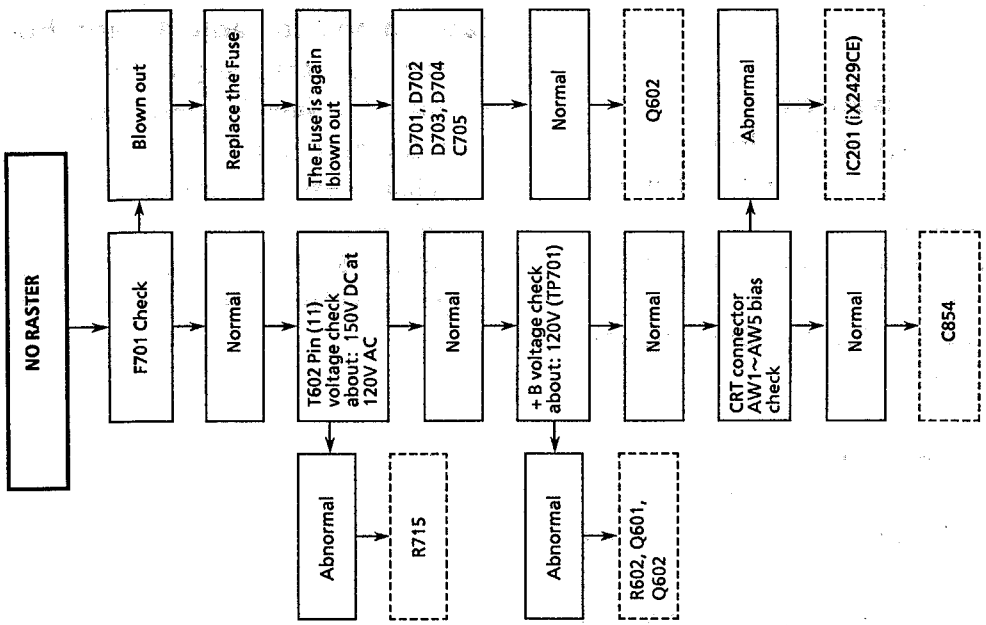


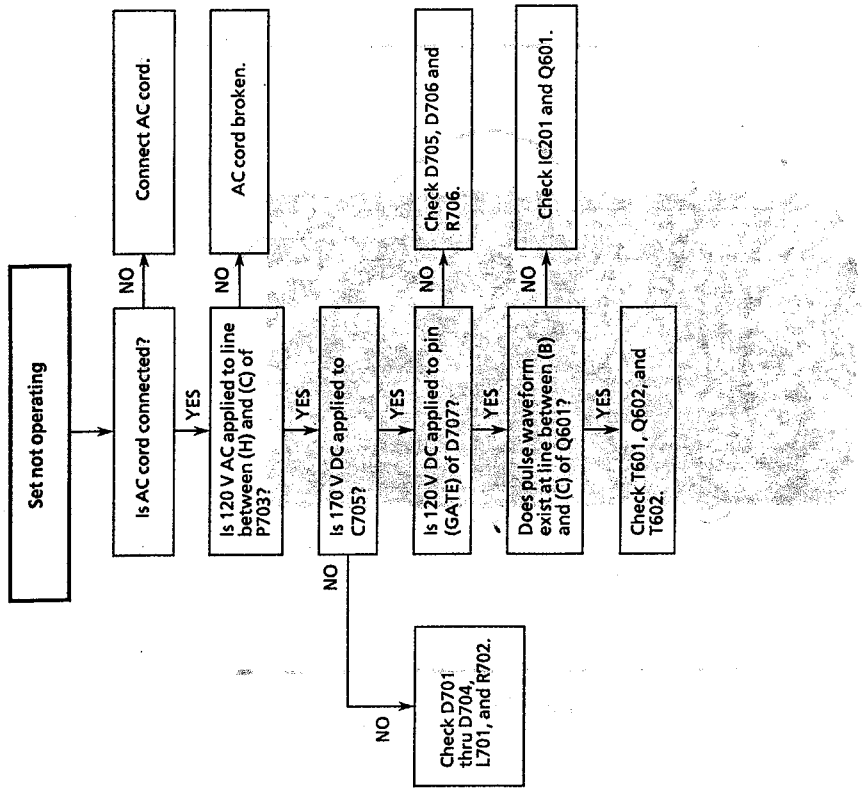
Figure-C

TROUBLESHOOTING OF TV SECTION

FLOW CHART NO. 2-2

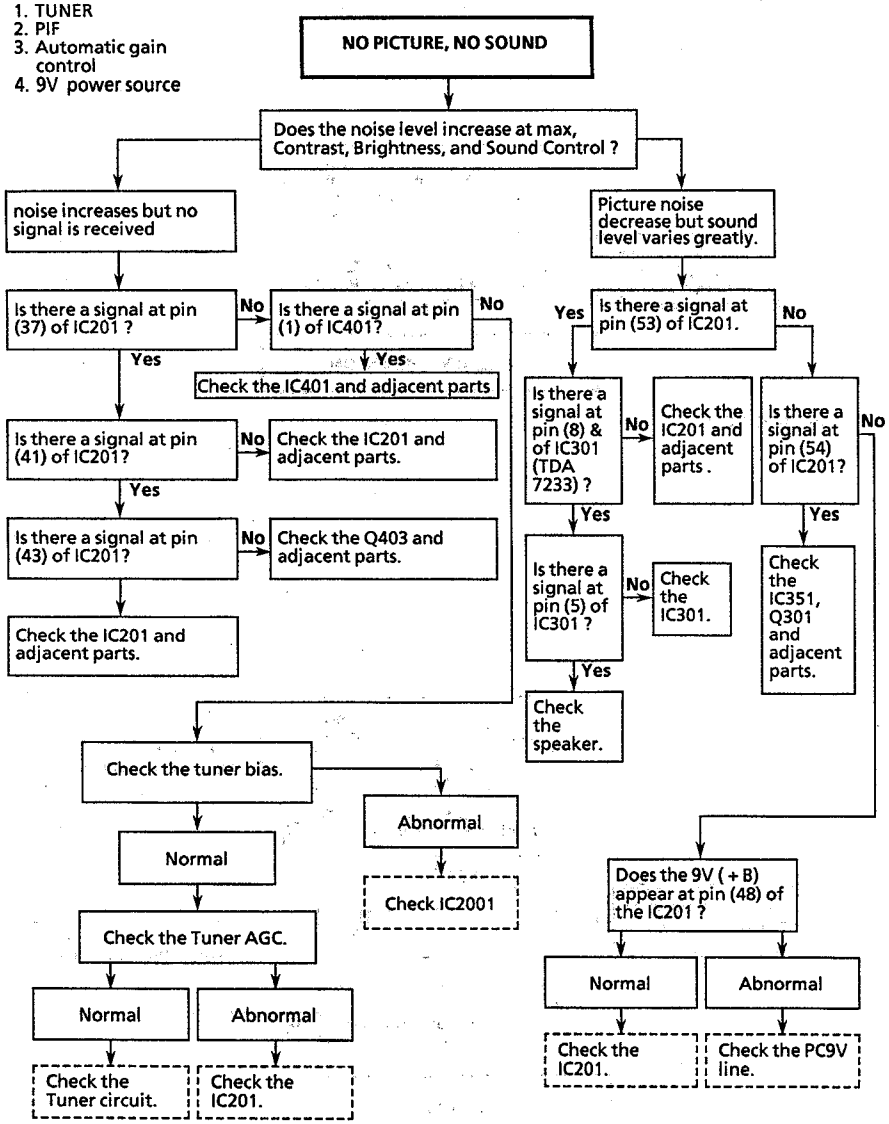


FLOW CHART NO. 2-1

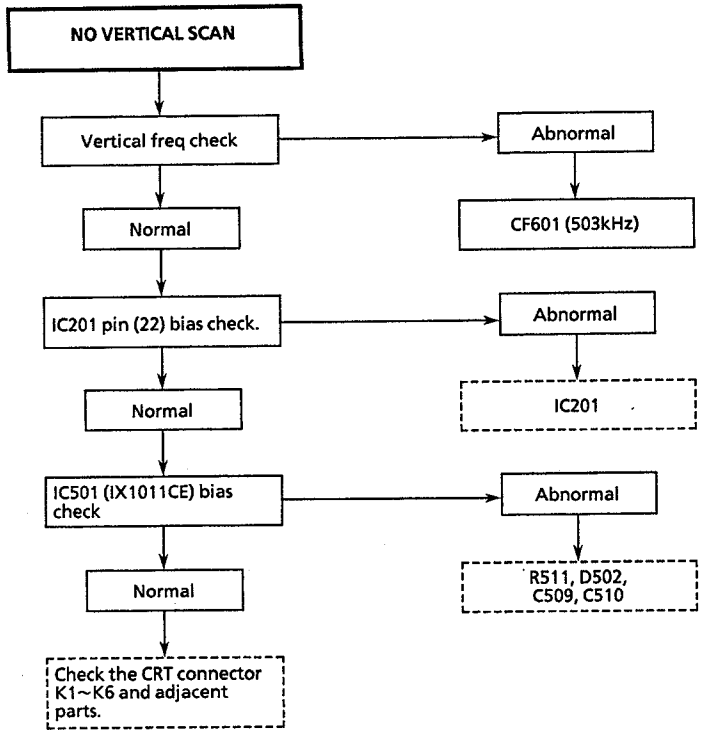


FLOW CHART NO. 2-3

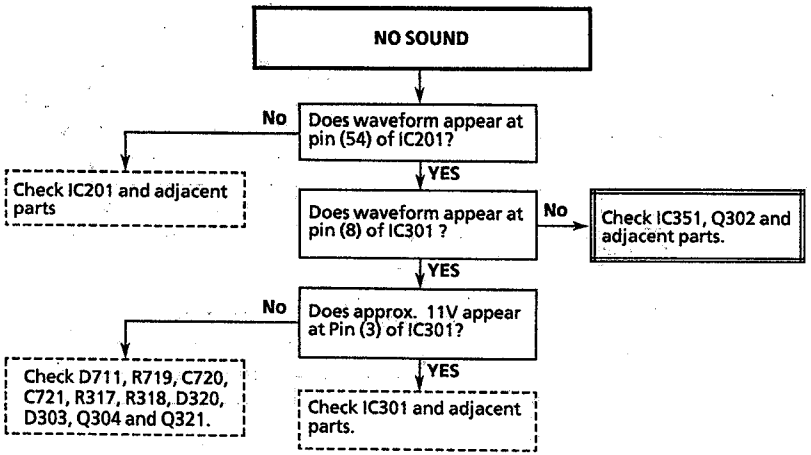
Circuit to be checked:
1. TUNER
2. PIF
3. Automatic gain control
4. 9V power source


NO PICTURE, NO SOUND
Does the noise level increase at max, Contrast, Brightness, and Sound Control ?
noise increases but no signal is received
Picture noise decrease but sound level varies greatly.
Is there a signal at pin (37) of IC201 ?
No
Is there a signal at pin (1) of IC401?
No
Yes
Yes
Check the IC401 and adjacent parts
Is there a signal at pin (41) of IC201?
No
Check the IC201 and adjacent parts.
Yes
Is there a signal at pin (43) of IC201?
No
Check the Q403 and adjacent parts.
Check the IC201 and adjacent parts.
Yes
Is there a signal at pin (53) of IC201.
No
Is there a signal at pin (8) & of IC301 (TDA 7233) ?
No
Check the IC201 and adjacent parts .
Is there a signal at pin (54) of IC201?
No
Yes
Yes
Is there a signal at pin (5) of IC301 ?
No
Check the IC301.
Check the IC351, Q301 and adjacent parts.
Yes
Check the speaker.
Check the tuner bias.
Abnormal
Check IC2001
Normal
Check the Tuner AGC.
Normal
Abnormal
Check the Tuner circuit.
Check the IC201.
Does the 9V (+ B) appear at pin (48) of the IC201 ?
Normal
Abnormal
Check the IC201.
Check the PC9V line.

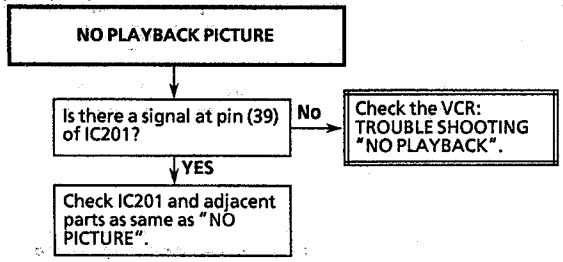
FLOW CHART NO. 2-4



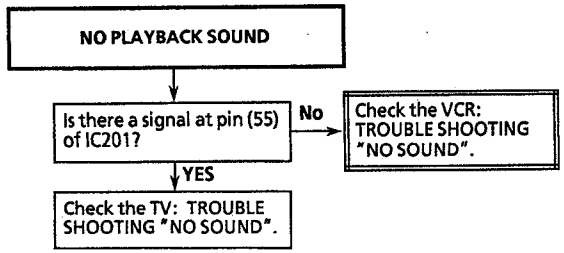
FLOW CHART NO. 2-5


NO SOUND
Does waveform appear at pin (54) of IC201?
No
Check IC201 and adjacent parts
YES
Does waveform appear at pin (8) of IC301 ?
No
Check IC351, Q302 and adjacent parts.
YES
Does approx. 11V appear at Pin (3) of IC301?
No
Check D711, R719, C720, C721, R317, R318, D320, D303, Q304 and Q321.
YES
Check IC301 and adjacent parts.

FLOW CHART NO. 2-6


NO PLAYBACK PICTURE
Is there a signal at pin (39) of IC201?
No
Check the VCR: TROUBLE SHOOTING "NO PLAYBACK".
YES
Check IC201 and adjacent parts as same as "NO PICTURE".

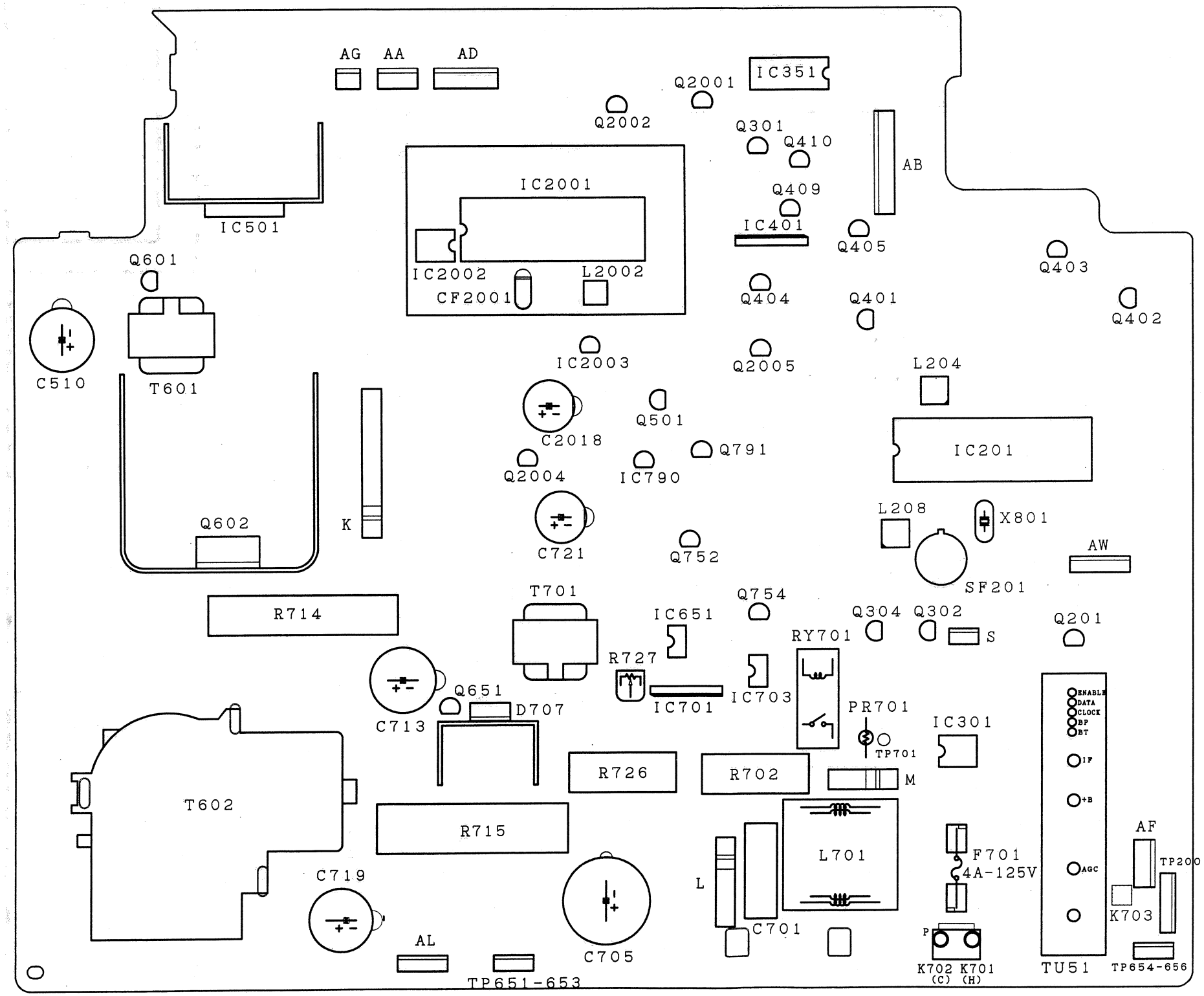
FLOW CHART NO. 2-7


NO PLAYBACK SOUND
Is there a signal at pin (55) of IC201?
No
Check the VCR: TROUBLE SHOOTING "NO SOUND".
YES
Check the TV: TROUBLE SHOOTING "NO SOUND".

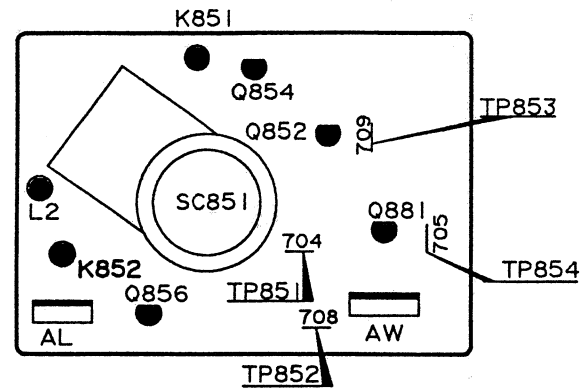
13VT-G60/80
13VT-G100/120

CHASSIS LAYOUT OF TV SECTION

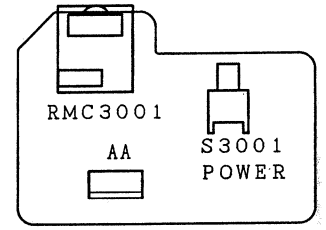
■ MAIN PWB



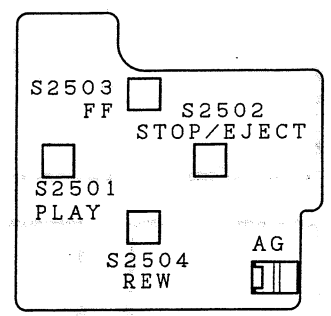
■ CRT PWB



■ POWER SW PWB

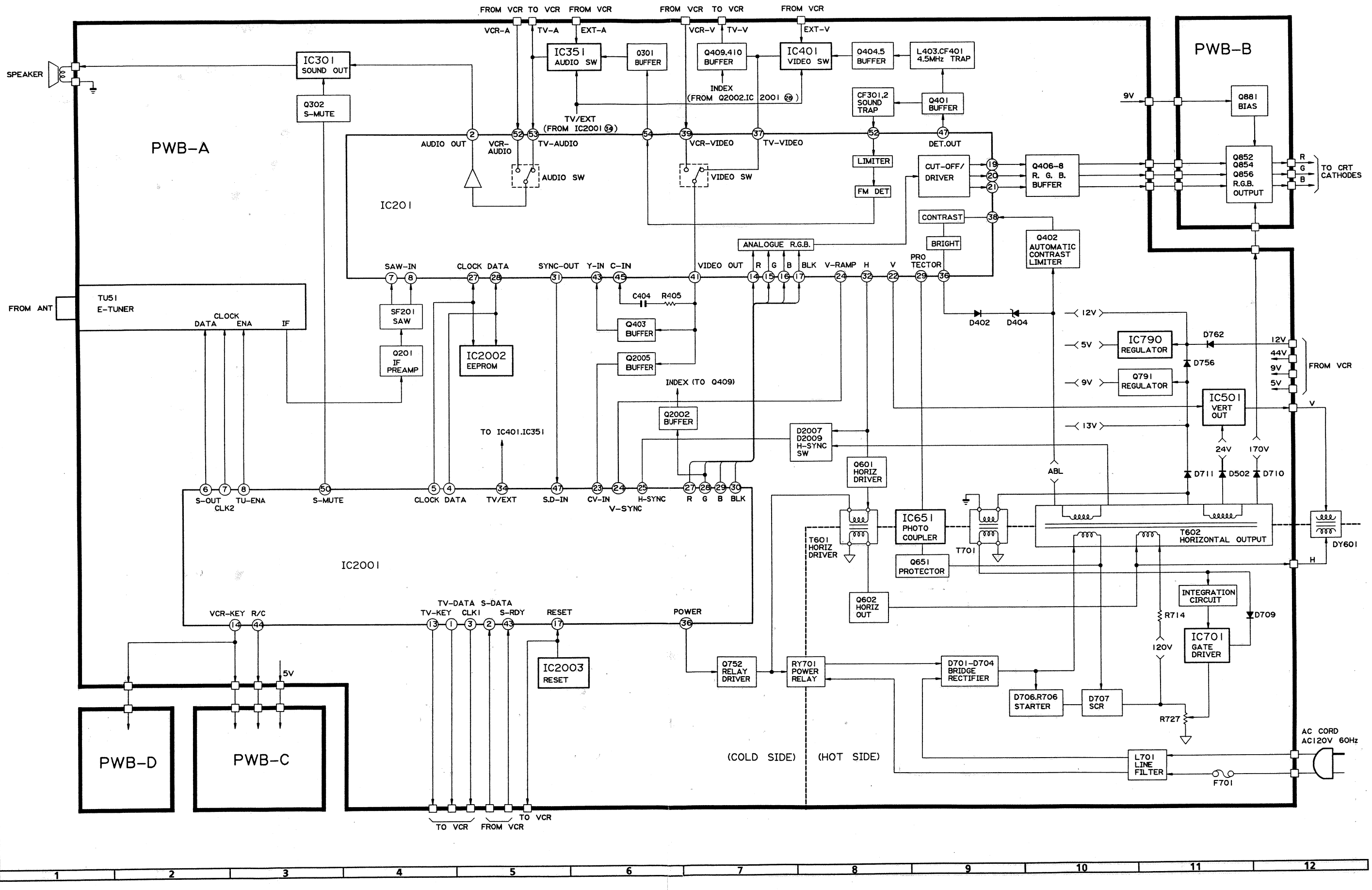


■ VCR KEY PWB

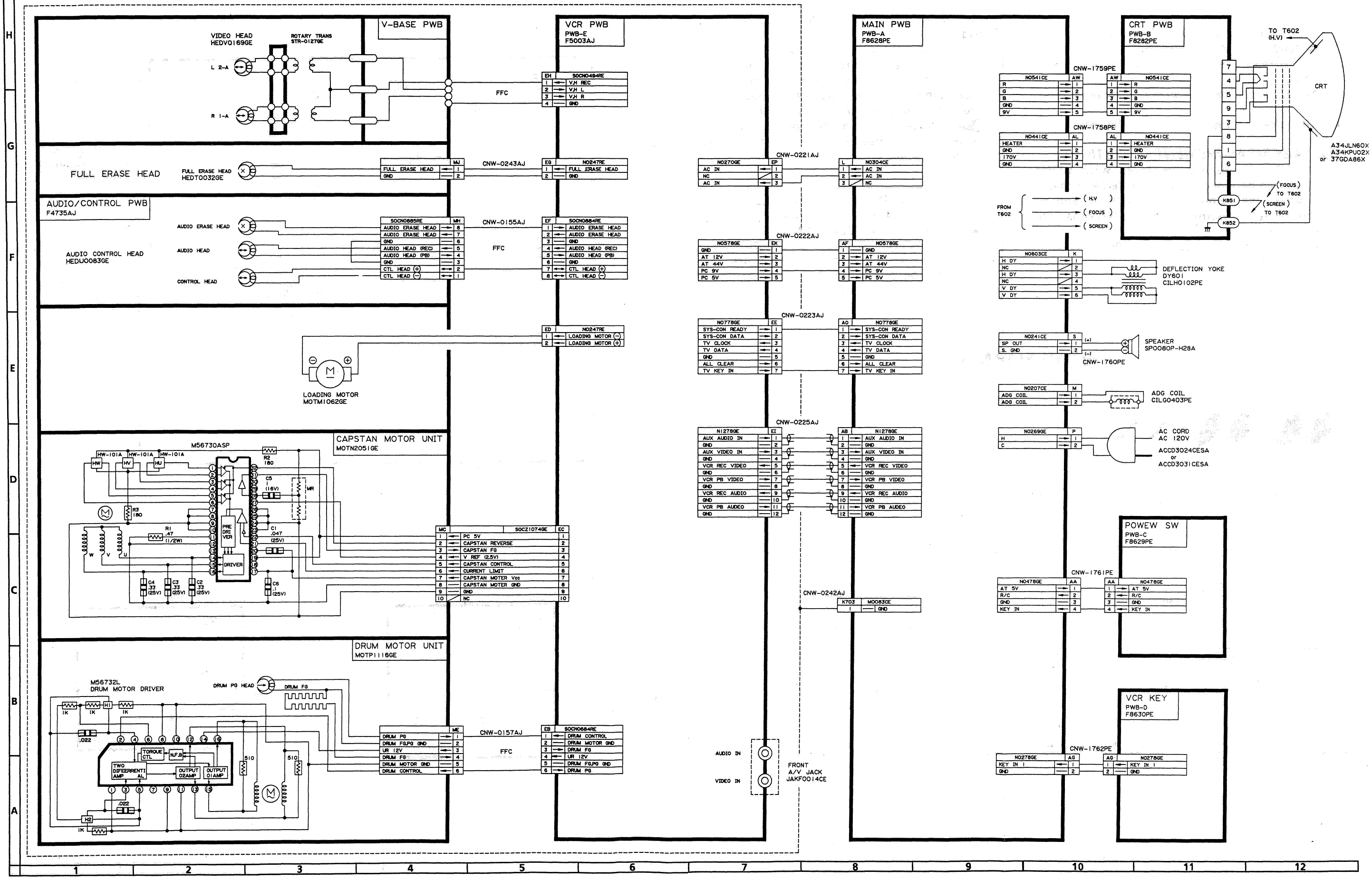


13VT-G60/80
13VT-G100/120

BLOCK DIAGRAM OF TV SECTION



OVERALL SCHEMATIC DIAGRAM



13VT-G60/80
13VT-G100/120

DESCRIPTION OF TV SECTION SCHEMATIC DIAGRAM

NOTE:

1. *The unit of resistance "ohm" is omitted (K:1000 ohms, M:1 Meg ohm).*
2. *All resistors are 1/8 watt, unless otherwise noted.*
3. *All capacitors are μF, unless otherwise noted P: μμF.*
4. *(G) indicates ±2% tolerance may be used.*

VOLTAGE MEASUREMENT CONDITIONS:

1. *All DC voltages are measured with VTVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.*
2. *All voltages measured with 1000μV B&W or Color signal.*

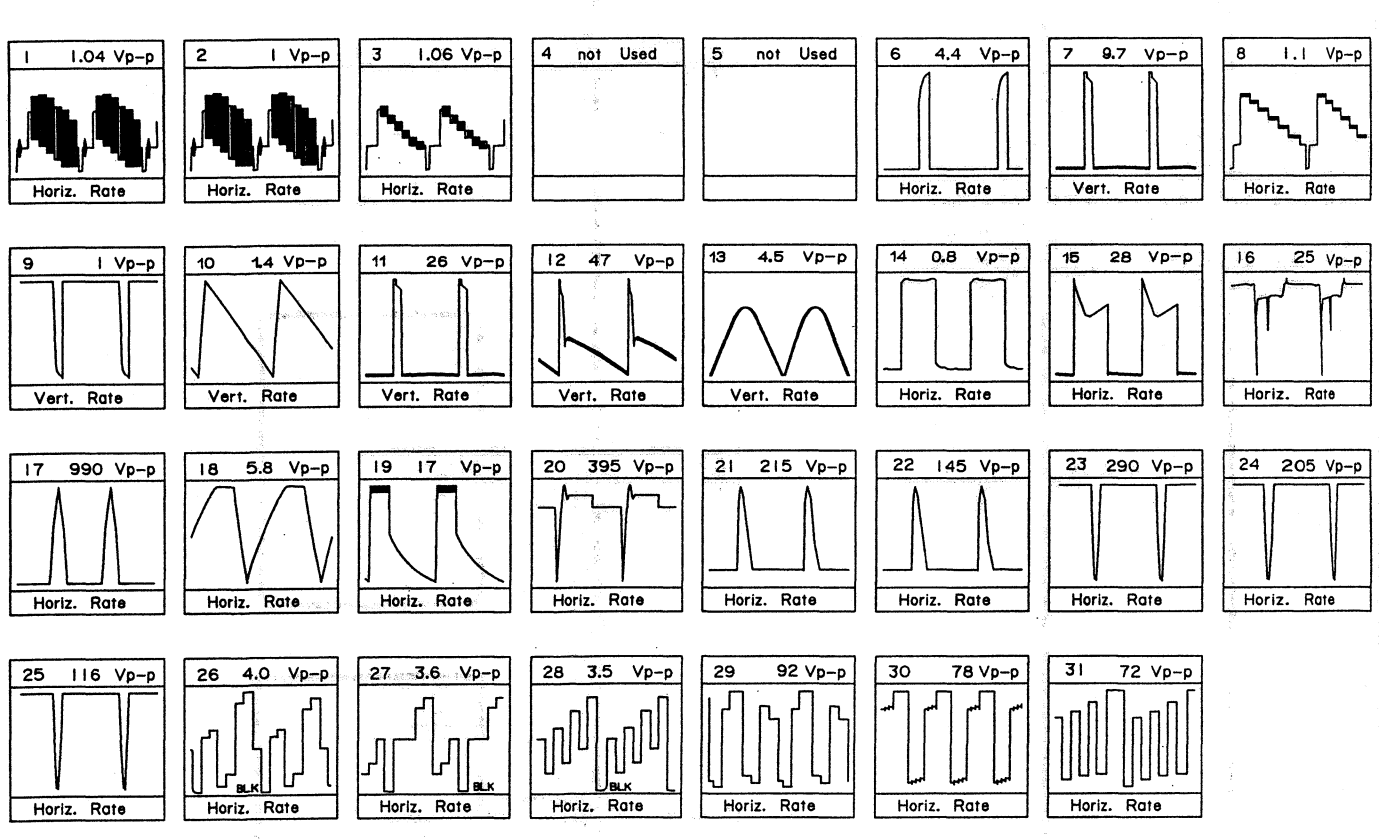
WAVEFORM MEASUREMENT CONDITIONS:

1. *Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.*
2. *indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)*

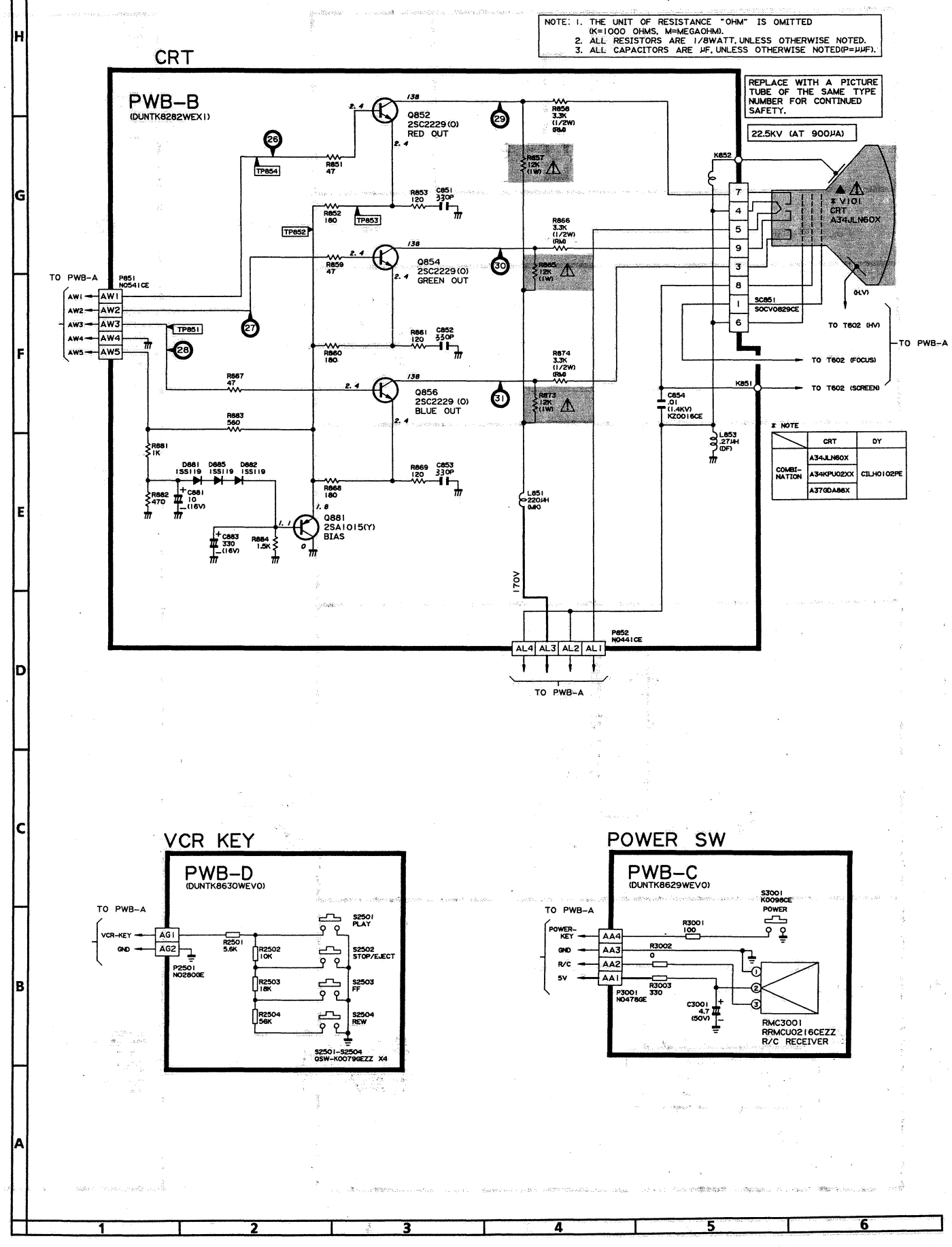
⚠ *AND SHADED (▒▒▒) COMPONENTS = SAFETY RELATED PARTS.*
▲ *MARK = X-RAY RELATED PARTS.*

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

WAVEFORMS

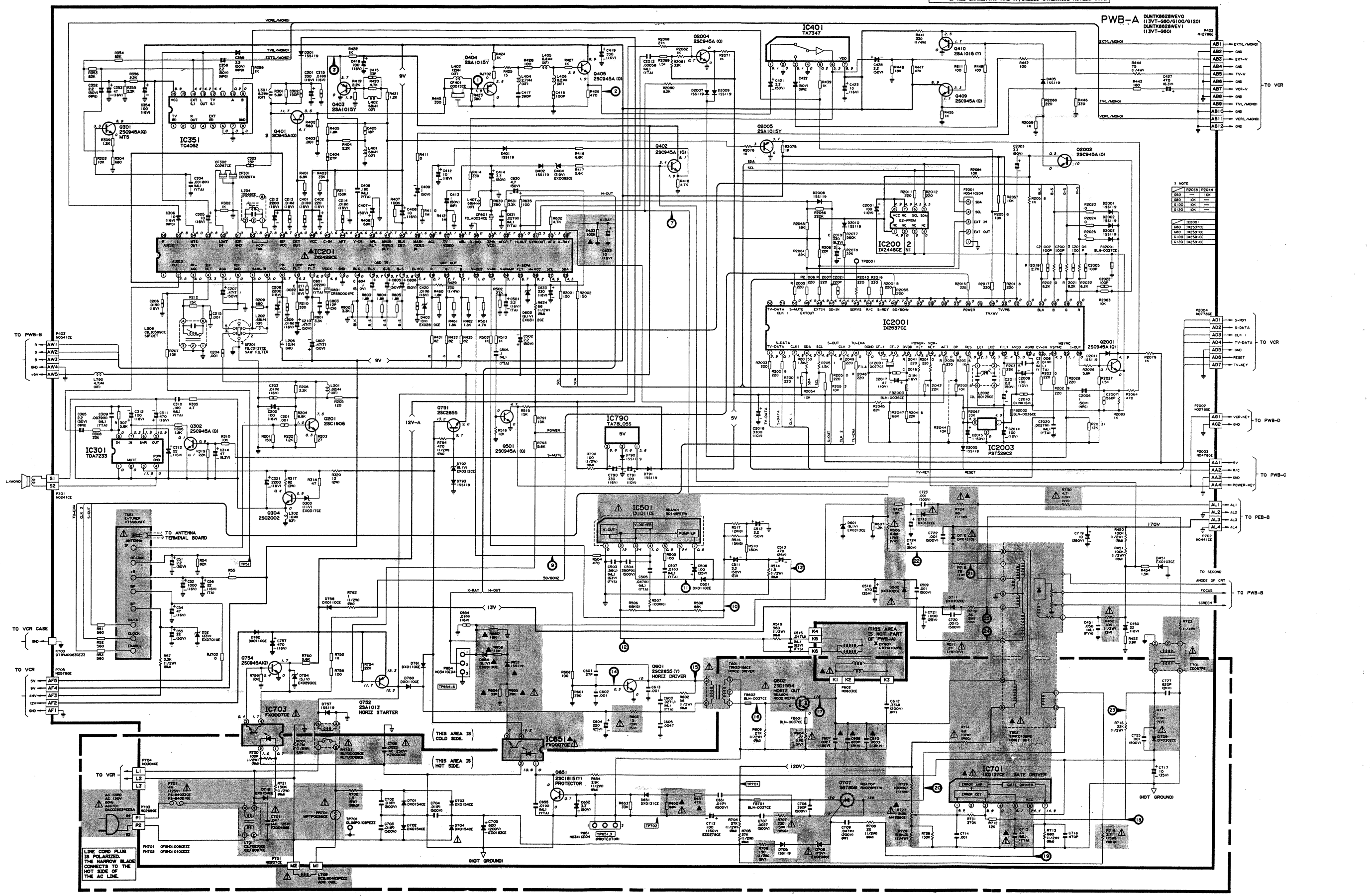


SCHEMATIC DIAGRAM: VCR KEY, POWER SWITCH, CRT Unit



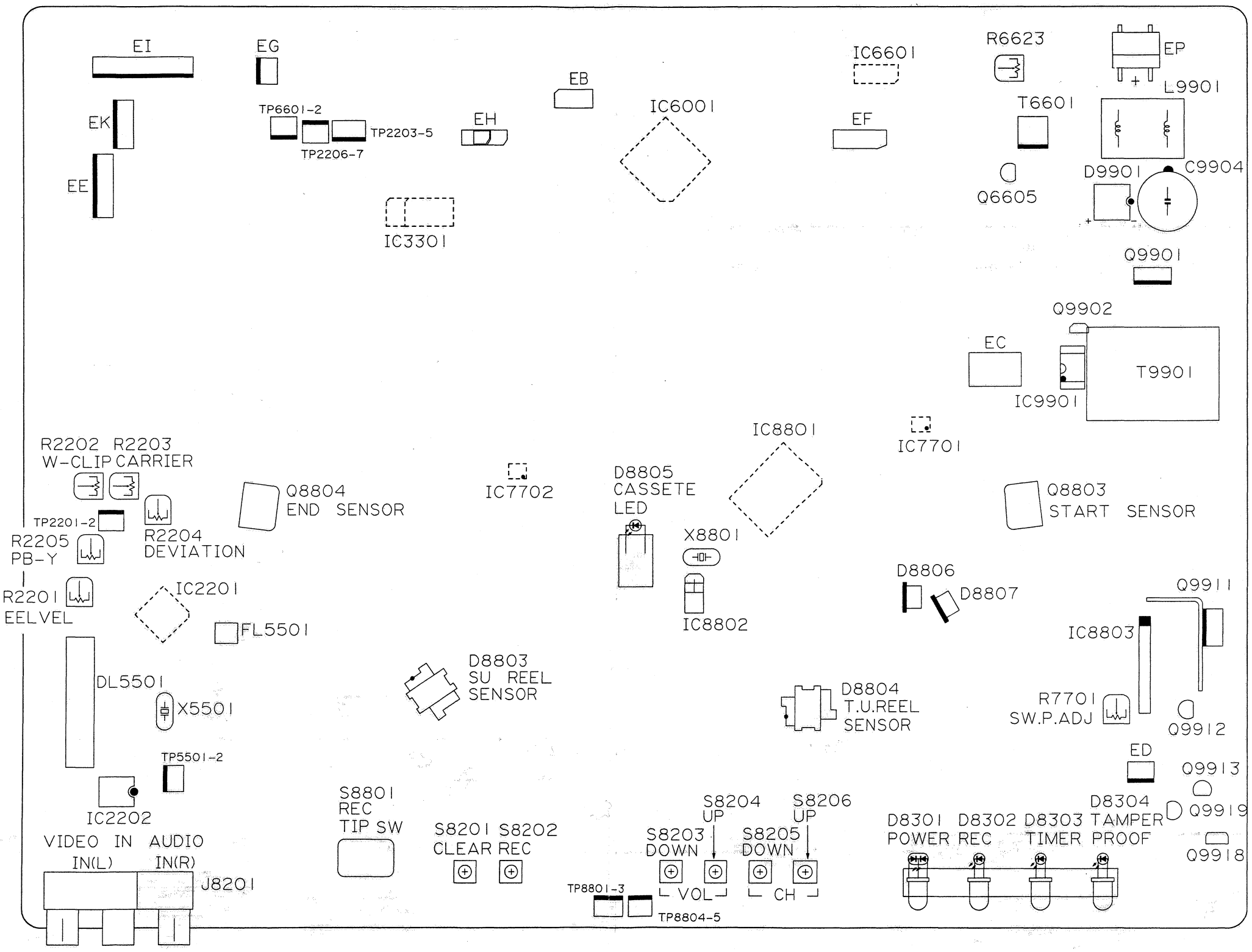
SCHEMATIC DIAGRAM: MAIN Unit

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHMS).
2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE MF, UNLESS OTHERWISE NOTED(P=μμF).



13VT-G60/80
13VT-G100/120

CHASSIS LAYOUT OF VCR SECTION



DESCRIPTION OF VCR SCHEMATIC DIAGRAM

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" (▒▒▒▒) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

- *The indicated voltages in the following diagram are measurde with an SSVM, upon receiving color bars (400 Hz sound signal) in either the record mode or the play mode or the play mode voltage is indicated as follows.*

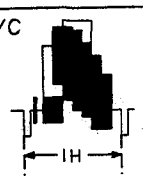
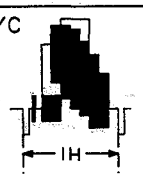
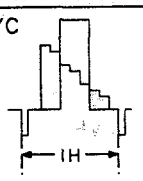
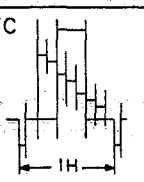
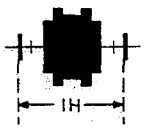
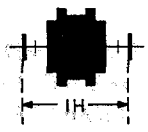
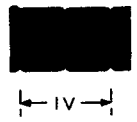
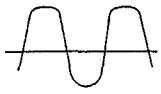
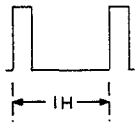
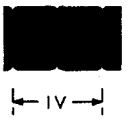
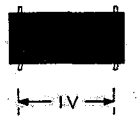
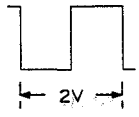
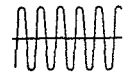
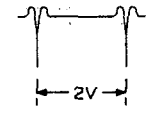
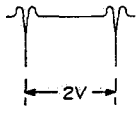
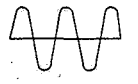
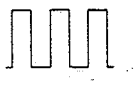
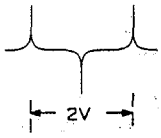
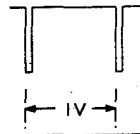
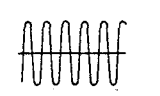
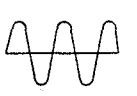
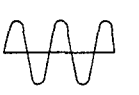
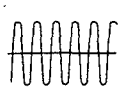
4.0	···	*Record mode (SP)*
(4.0)	···	*PB mode (SP)*
4.0	···	*LP mode*
4.0	···	*EP mode*

NOTE:
1. *The unit of resistance "ohm" is omitted (K : 1000 ohms M : 1 Meg ohm)*
2. *All resistors are 1/8 watt. unless otherwise noted.*
3. *All capacitors μF, unless otherwise noted P: μμF.*

Volteges and waveform are measured as follows:
- *DC voltages are measured with an SSVM placed between points indicated and chassis ground, with the supply voltage of 120V AC and all controls for normal positions.*

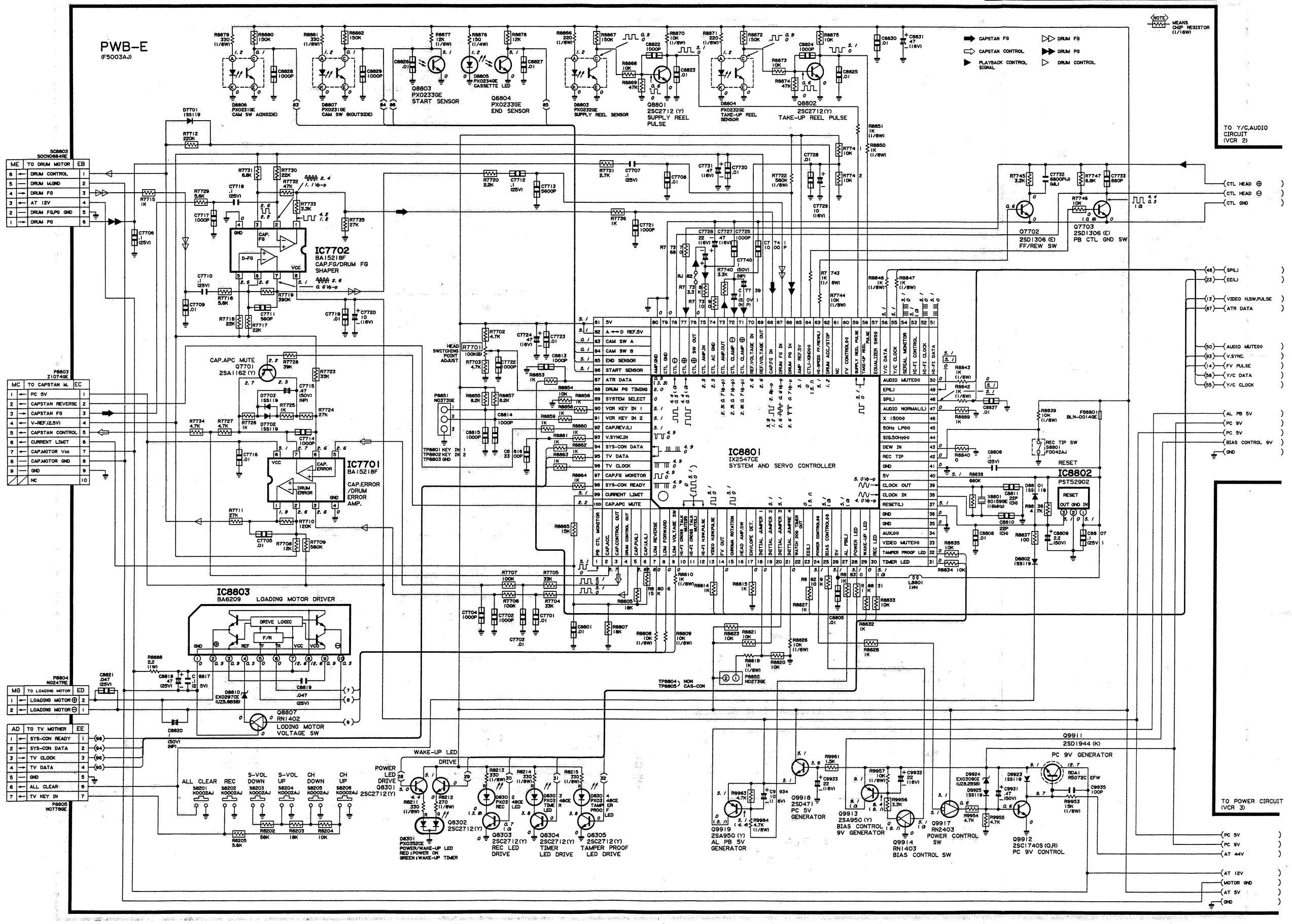
This circuit diagram is a standard one, actual circuits printed may be subject to change for product improvement without prior notice.

WAVEFORMS

Y/C 	Y/C 	Y/C 	Y/C 	Y/C 	Y/C 
V: 1.0Vp-p Pin (26) of IC2201 REC/EE	V: 2.0Vp-p Pin (28) of IC2201 REC/EE	V: 300mVp-p Pin (32) of IC2201 REC/EE/PB	V: 600mVp-p TP2205 (Pin (45) of IC2201 REC/EE	V: 260mVp-p Pin (53) of IC2201 REC/EE	V: 300mVp-p Pin (51) of IC2201 PB
Y/C 	Y/C 	Y/C 	Y/C 	Y/C,H/A 	H/A 
V: 260mVp-p Pin (49) of IC2201 PB	H: 3.579545MHz V: 550mVp-p Pin (7) of IC2201	V: 4.4Vp-p Pin (24) of IC2201 COMPOSITE SYNC.	V: 400mVp-p TP2203 PB CHROMA	V: 140mVp-p TP2207 REC	V: 4.0Vp-p Headswitching pulse Pin (16) of IC3301 REC/PB
SYSTEM CONTROLLER SERVO 	SERVO 	SERVO 	SERVO 	SERVO 	SERVO 
H: 16MHz V: 5.0Vp-p pin (39) of IC8801 REC/PB CLOCK	V: 1.0Vp-p Pin (1) of connector -ED REC/PB DRUM PG	V: 0.8Vp-p pin (66) of IC8801 REC/PB DRUM PG	H: 720Hz V: 0.7Vp-p pin (67) of IC8801 REC/PB DRUM FG	H: 1080Hz (SP) V: 2.5Vp-p pin (68) of IC8801 REC/PB CAPSTAN FG	V: 3.6Vp-p pin (73) of IC8801 PB CTL
SERVO 	AUDIO 	AUDIO 	AUDIO 	AUDIO 	
V: 5.0Vp-p pin (93) of IC8801 EE (REC) V-SYNC	H: 70 ± 5kHz V: 50mVp-p TP6601 (+) TP6602 (-) REC	H: 1kHz V: 0.3Vp-p Pin (9) of connector-EI REC/EE/PB	H: 1kHz V: 0.6Vp-p Pin (11) of connector-EI REC/EE/PB	H: 70 ± 5kHz V: 70Vp-p Pin (2) of connector-EF REC	

SCHEMATIC DIAGRAM: VCR UNIT (SYSTEM CONTROLLER AND SERVO CIRCUIT)

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE μF, UNLESS OTHERWISE NOTED(P=pμF).


PWB-E
(F5003AJ)
IC7702
BA15218F
CAP.FG/DRUM FG SHAPER
IC7701
BA15218F
CAP.ERROR /DRUM ERROR AMP.
IC8801
IX2547CE
SYSTEM AND SERVO CONTROLLER
IC8802
PST52902
RESET
IC8803
BA6209
LOADING MOTOR DRIVER
Q8803 PX0233GE START SENSOR
Q8804 PX0233GE END SENSOR
Q8801 2SC2712 (Y) SUPPLY REEL PULSE
Q8802 2SC2712(Y) TAKE-UP REEL PULSE
Q7702 2SD1306 (E) FF/REW SW
Q7703 2SD1306 (E) PB CTL GND SW
Q8807 RN1402 LOADING MOTOR VOLTAGE SW
Q8302 2SC2712(Y) POWER LED DRIVE
Q8303 2SC2712(Y) REC LED DRIVE
Q8304 2SC2712(Y) TIMER LED DRIVE
Q8305 2SC2712(Y) TAMPER PROOF LED DRIVE
Q9911 2SD1944 (K) PC 9V GENERATOR
Q9916 2SD471 PC 5V GENERATOR
Q9913 2SA950 (Y) BIAS CONTROL 9V GENERATOR
Q9914 RN1403 BIAS CONTROL SW
Q9917 RN2403 POWER CONTROL SW
Q9919 2SA950 (Y) AL PB 5V GENERATOR
Q9912 2SC1740S(Q,R) PC 9V CONTROL
Q7701 2SA1162 (Y) CAP.APC MUTE
CAPSTAN FG
CAPSTAN CONTROL
PLAYBACK CONTROL SIGNAL
DRUM FG
DRUM PG
DRUM CONTROL
TO Y/C,AUDIO CIRCUIT (VCR 2)
TO POWER CIRCUIT (VCR 3)
WAKE-UP LED DRIVE
TP8801 KEY IN 1
TP8802 KEY IN 2
TP8803 GND
TP8804 NON CAS-CON
P8802 SCNO884RE
P8803 Z10746E
P8804 NO2479E
P8805 NO7780E
D7701 1SS119
D8806 PX0231GE CAM SW A(INSIDE)
D8807 PX0231GE CAM SW B(OUTSIDE)
D8805 PX0234GE CASSETTE LED
D8803 PX0232GE SUPPLY REEL SENSOR
D8804 PX0232GE TAKE-UP REEL SENSOR
D8810 EX0297CE (UZ5.6B5B)
D8301 PX0352GE POWER/WAKE-UP LED RED:POWER ON GREEN:WAKE-UP TIMER
D8302 1SS119
D8801 1SS119
D8802 1SS119
D9901 1SS119
D9902 EX0309CE (UZ6.2B5B)
D9903 1SS119
D9904 1SS119
D9905 1SS119
D9924 EX0309CE (UZ6.2B5B)
X8801 801596E (16MHz)
L8801 1mH
F8801 BLN-00146E
S8201 K0002AJ REC
S8202 K0002AJ S-VOL DOWN
S8203 K0002AJ S-VOL UP
S8204 K0002AJ CH DOWN
S8205 K0002AJ CH UP
S8206 K0002AJ
REC TIP SW S8501 F0042AJ
TAMPER PROOF SW S8501 F0042AJ
CAP,APC MUTE Q7701 2SA1162 (Y)
HEAD SWITCHING POINT ADJUST
R7701 100K(B)
TP8801 KEY IN 1
TP8802 KEY IN 2
TP8803 GND
R8851 NO3730E
R8852 NO3730E
R8853 1K
R8854 1K
R8855 8.2K
R8856 1K
R8857 8.2K
R8858 1K
R8859 1K
R8860 1K
R8861 1K
R8862 1K
R8863 1K
R8864 1K
R8865 15K
R8866 220 (1/8W)
R8867 150K
R8868 10K
R8869 47K
R8870 10K (1/8W)
R8871 220 (1/8W)
R8872 150K
R8873 10K
R8874 47K
R8875 10K
R8876 150 (1/4W)
R8877 12K (1/8W)
R8878 12K
R8879 330 (1/8W)
R8880 150K
R8881 330 (1/8W)
R8882 150K
R8883 1K
R8884 1K
R8885 1K
R8886 2.2 (1W)
R8887 1K
R8888 1K
R8889 1K
R8890 1K
R8891 1K
R8892 1K
R8893 1K
R8894 1K
R8895 1K
R8896 1K
R8897 1K
R8898 1K
R8899 1K
R8900 1K
R8901 1K
R8902 1K
R8903 1K
R8904 1K
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R8906 1K
R8907 1K
R8908 1K
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R8927 1K
R8928 1K
R8929 1K
R8930 1K
R8931 1K
R8932 1K
R8933 1K
R8934 1K
R8935 10K
R8936 1K
R8937 100
R8938 1K
R8939 10K (1/8W)
R8940 0
R8941 1K
R8942 1K (1/8W)
R8943 1K (1/8W)
R8944 1K
R8945 1K
R8946 1K
R8947 1K (1/8W)
R8948 1K (1/8W)
R8949 1K
R8950 1K (1/8W)
R8951 1K (1/8W)
R8952 1K
R8953 15K (1/8W)
R8954 1K
R8955 4.7K
R8956 3.3K
R8957 4.7K
R8958 4.7K
R8959 4.7K
R8960 4.7K
R8961 1.2K
R8962 4.7K
R8963 4.7K
R8964 4.7K
R8965 4.7K
R8966 4.7K
R8967 4.7K
R8968 4.7K
R8969 4.7K
R8970 4.7K
R8971 4.7K
R8972 4.7K
R8973 4.7K
R8974 4.7K
R8975 4.7K
R8976 4.7K
R8977 4.7K
R8978 4.7K
R8979 4.7K
R8980 4.7K
R8981 4.7K
R8982 4.7K
R8983 4.7K
R8984 4.7K (1/8W)
R8985 4.7K
R8986 4.7K
R8987 4.7K
R8988 4.7K
R8989 4.7K
R8990 4.7K
R8991 4.7K
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R8994 4.7K
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R8998 4.7K
R8999 4.7K
R9000 4.7K
R9001 4.7K
R9002 4.7K
R9003 4.7K
R9004 4.7K
R9005 4.7K
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R9007 4.7K
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R9035 4.7K
R9036 4.7K
R9037 4.7K
R9038 4.7K
R9039 4.7K
R9040 4.7K
R9041 4.7K
R9042 4.7K
R9043 4.7K
R9044 4.7K
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R9085 4.7K
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R9087 4.7K
R9088 4.7K
R9089 4.7K
R9090 4.7K
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R9092 4.7K
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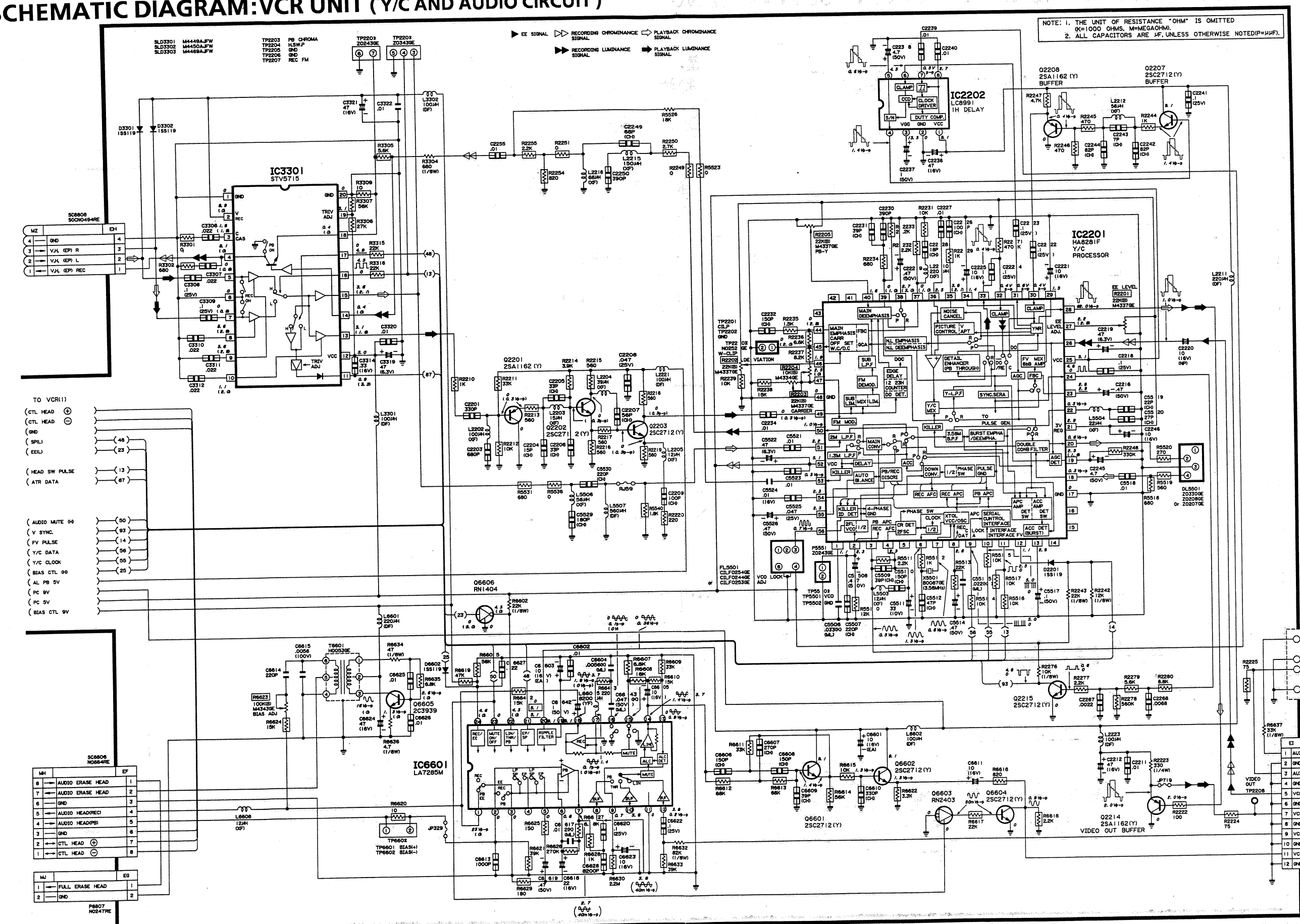
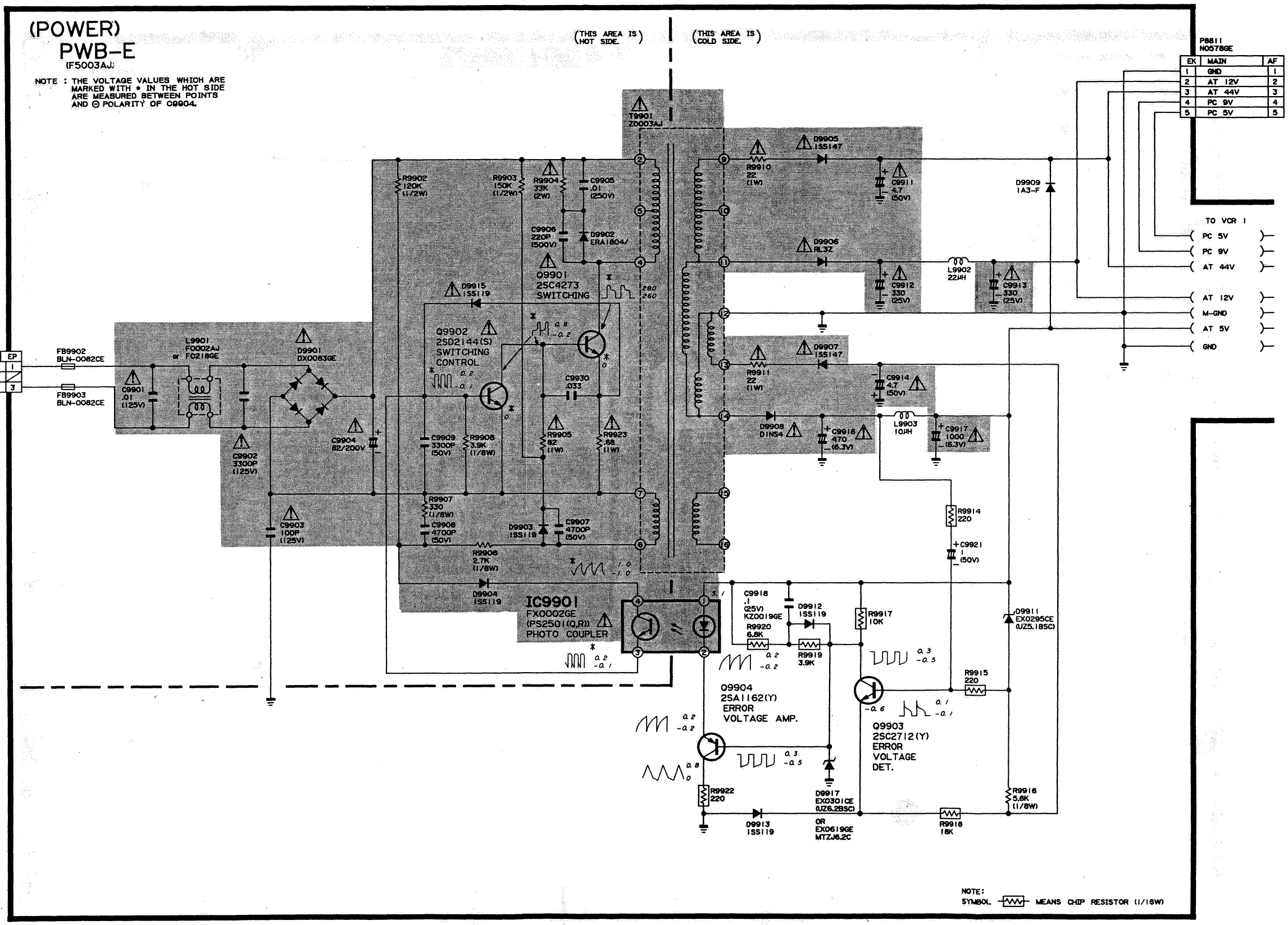
R9094 4.7K
R9095 4.7K
R9096 4.7K
R9097 4.7K
R9098 4.7K
R9099 4.7K
R9100 4.7K
C7701 .01
C7702 .01
C7703 .01
C7704 1000P
C7705 .01
C7706 1 (25V)
C7707 .01
C7708 1000P
C7709 .01
C7710 1 (25V)
C7711 560P
C7712 (25V)
C7713 5600P
C7714 1000P
C7715 47 (50V) (NP)
C7716 .01
C7717 1000P
C7718 1 (25V)
C7719 .01
C7720 10 (16V)
C7721 1000P
C7722 1000P
C7723 .01
C7724 47 (16V)
C7725 1000P
C7726 22 (16V)
C7727 47 (16V)
C7728 .01
C7729 10 (16V)
C7730 .01
C7731 47 (16V)
C7732 6800P
C7733 680P
C7734 4.7K
C7735 27K
C7736 1K
C7737 1000P
C7738 1000P
C7739 1000P
C7740 (50V) (NP)
C7741 1000P
C7742 1000P
C7743 1000P
C7744 10K (1/8W)
C7745 3.3K
C7746 10K
C7747 6.8K
C7748 1000P
C7749 1000P
C7750 1000P
C7751 1000P
C7752 1000P
C7753 1000P
C7754 1000P
C7755 1000P
C7756 1000P
C7757 1000P
C7758 1000P
C7759 1000P
C7760 1000P
C7761 1000P
C7762 1000P
C7763 1000P
C7764 1000P
C7765 1000P
C7766 1000P
C7767 1000P

13VT-G60/80
13VT-G100/120

SCHEMATIC DIAGRAM: VCR UNIT (Y/C AND AUDIO CIRCUIT)



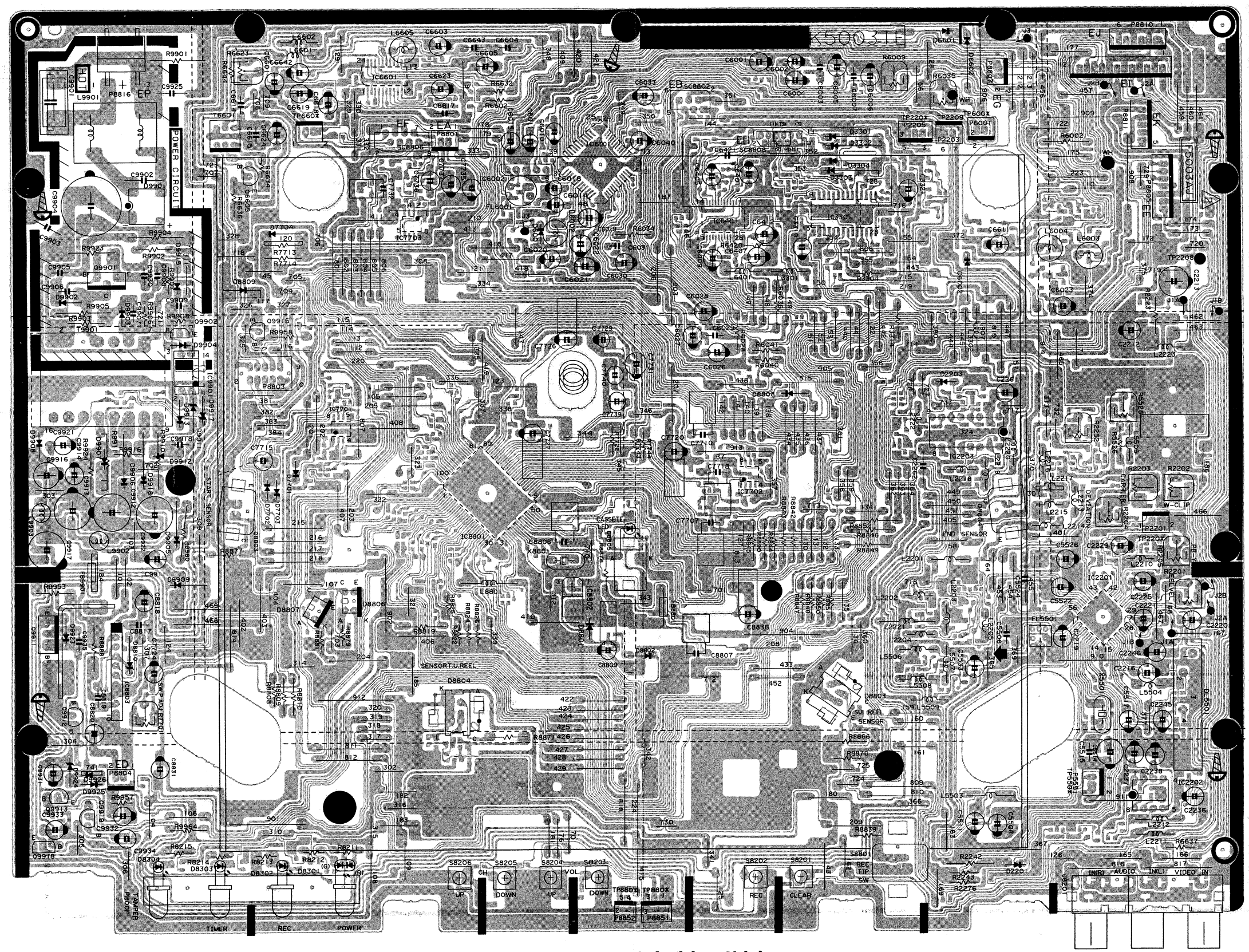
SCHEMATIC DIAGRAM: VCR UNIT (POWER CIRCUIT)



13VT-G60/80
13VT-G100/120

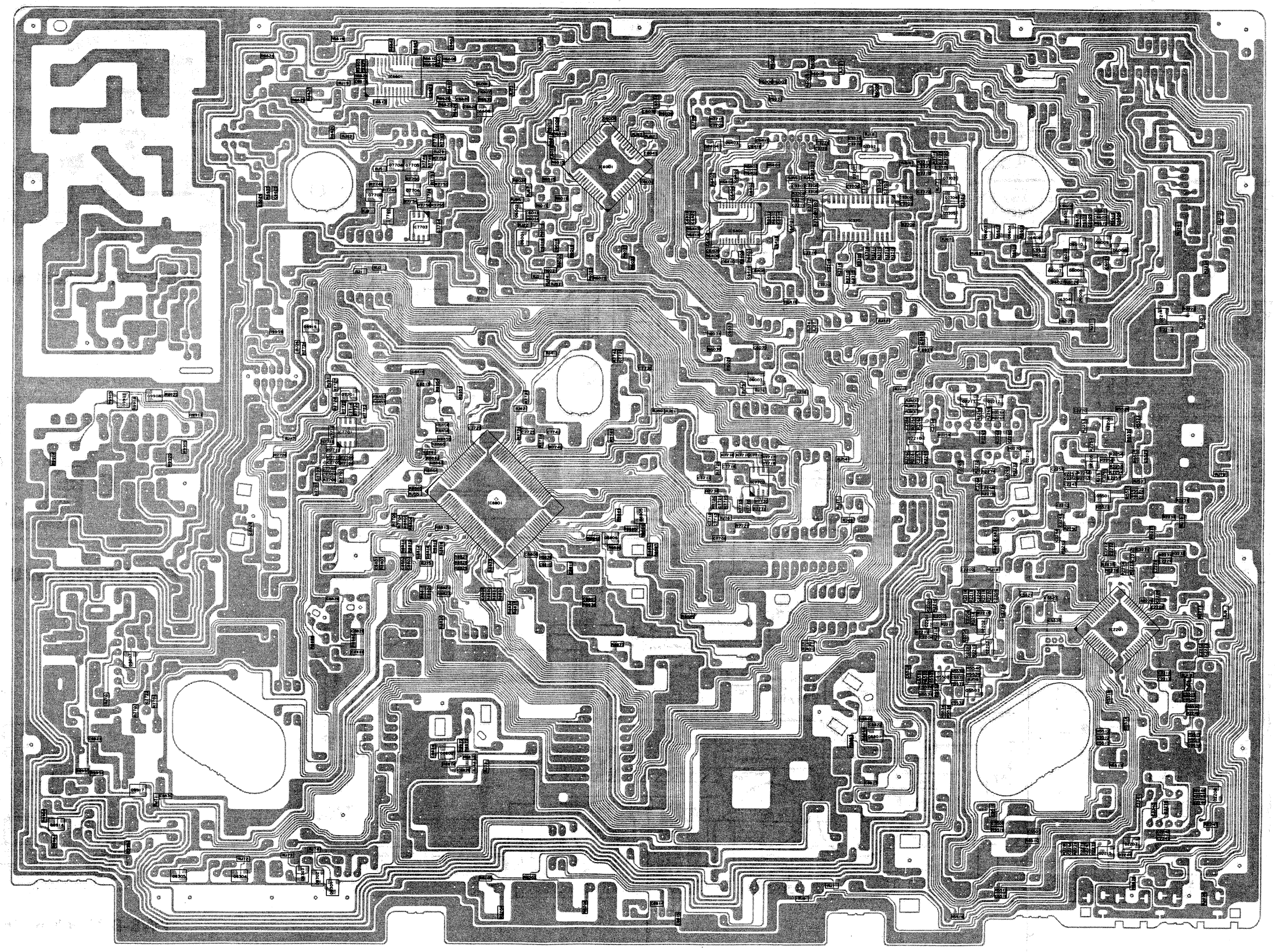
PRINTED WIRING BOARD ASSEMBLIES

■ VCR SECTION



PWB-E: VCR Unit (Wiring Side)

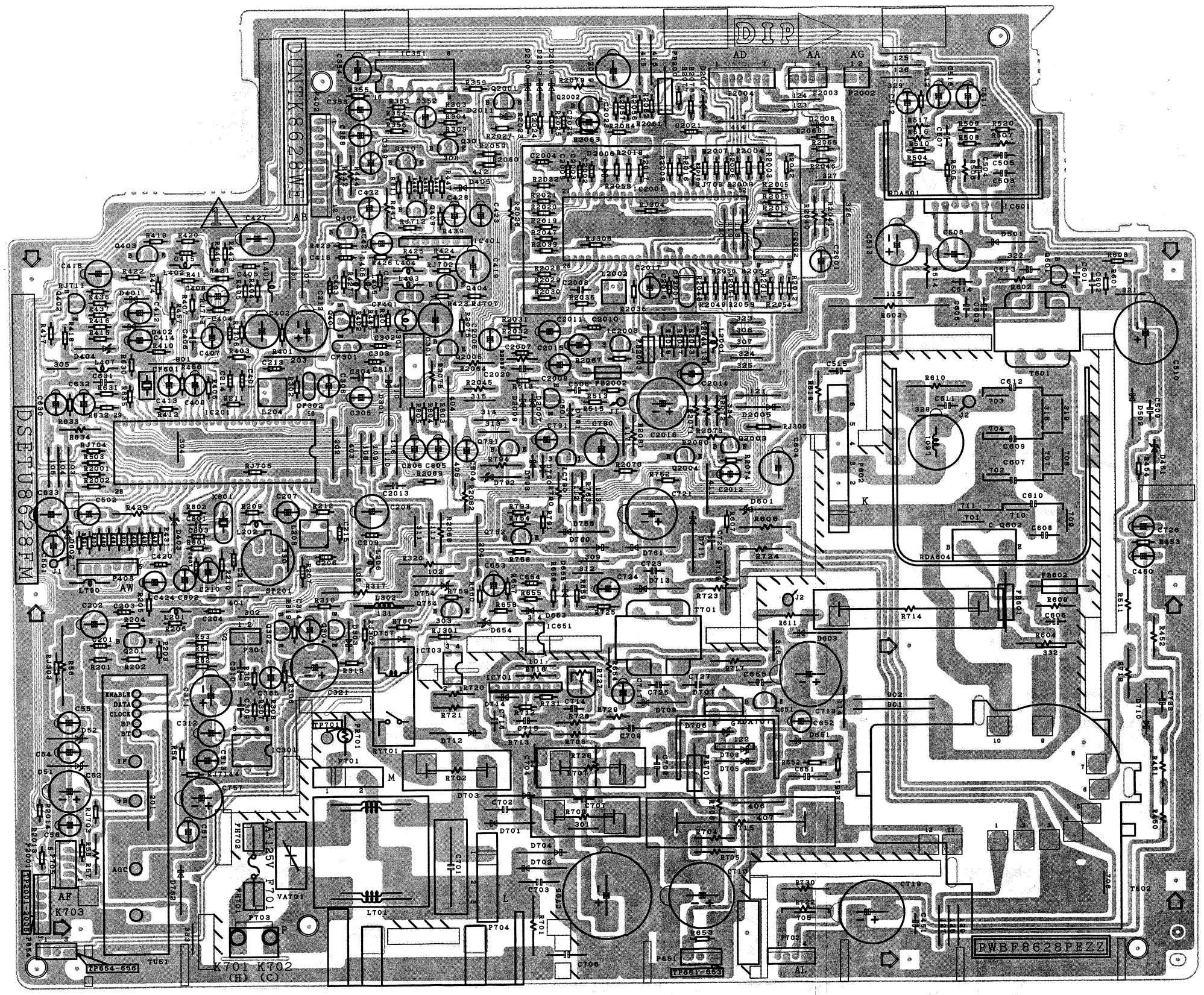
13VT-G60/80
13VT-G100/120

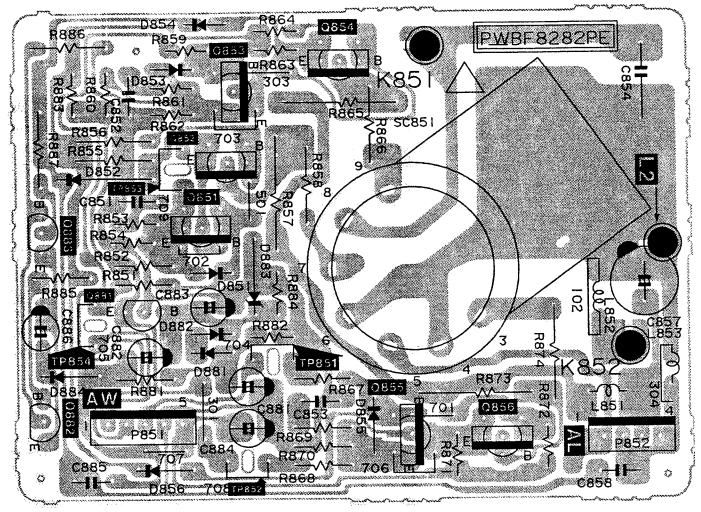


PWB-E: VCR Unit (Chip parts Side)

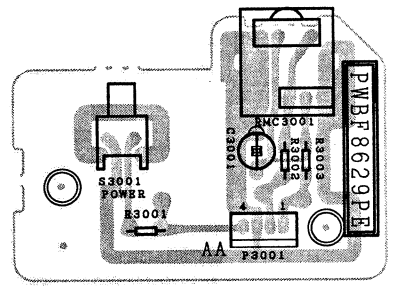
13VT-G60/80
13VT-G100/120

■ TV SECTION

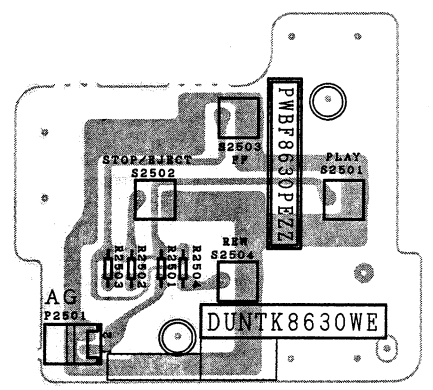




PWB-B:CRT Socket Unit (Wiring Side)



PWB-C:Power SW Unit (Wiring Side)



PWB-D:VCR Key Unit (Wiring Side)

REPLACEMENT PARTS LIST

SAFETY NOTE — Components marked with a (⚠) have special characteristics important to safety. Before replacing any of these components, read carefully the SAFETY NOTICE on page 3 of the Service Manual. Components marked with an (▲) are related to X-Ray Protection circuit.

HOW TO ORDER REPLACEMENT PARTS — To have your order filled promptly and correctly, please furnish the following information:

1. MODEL NO. 2. PART NO. 3. DESCRIPTION

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★MARK: SPARE PARTS-DELIVERY SECTION

TV SECTION

PICTURE TUBE

Ref. No.	Part No.	★	Description	Code
▲⚠V101	VB34KPU02X/*S	R	Picture Tube	
	or			
	VBA34JLN60X-S	R		
	or			
	VB37GDA86X/1E	R		
▲⚠DY601	RCiLH0102PEZZ	R	Deflection Yoke	
⚠L702	RCiLG0403PEZZ	R	Degaussing Coil	AK
	PMAGF3006CEZZ	J	Magnet Ass'y — Purity and Static Convergence	AK
	PSPAG0004PEZZ	R	Wedge (Gum), Yoke Positioning (3 Used)	AB

—— End of PICTURE TUBE ——

PRINTED WIRING BOARD ASSEMBLIES
(*NOT REPLACEMENT ITEM*)

Ref. No.	Part No.	★	Description	Code
PWB-A	DUNTK8628WEV1	-	Main UNIT	—
PWB-B	DUNTK8282WEX1	-	CRT UNIT	—
PWB-C	DUNTK8629WEV0	-	Power SW UNIT	—
PWB-D	DUNTK8630WEV0	-	VCR KEY UNIT	—

PWB-A DUNTK8628WEV1
MAIN UNIT

TUNER

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENEDNTLY.

⚠TU51	VTUVTSS6USFF/	J	Tuner	BK

INTEGRATED CIRCUITS

⚠IC201	RH-iX2429CEZZ	J	TA1201N	BB
IC301	VHiTDA7233/-1	J	TDA7233	AF
IC351	VHiTC4052BP-1	J	TC4052BP	AF
IC401	VHiTA7347P/-1	J	TA7347P	AG
⚠IC501	RH-iX1011CEZZ	J	TA8403K	AG
▲⚠IC701	RH-iX0137CEZZ	J	T2508	AH
IC790	VHiTA78L05S-1	J	TA78L05S	AC
IC2001	RH-iX2537CEN2	J	I.C. *(13VT-G60)*	
IC2001	RH-iX2591CEZZ	J	I.C. *(13VT-G80/100/120)*	
IC2002	RH-iX2448CEN1	J	ST24C02CB1	AN
IC2003	VHiPST529C2-1	J	IC-PST529C-2	AD

PWB-A DUNTK8628WEV1
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
TRANSISTORS				
Q201	VS2SC1906//1E	J	2SC1906	AC
Q301	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q302	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q304	VS2SC2002-K1A	J	2SC2002	AC
Q401	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q402	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q403	VS2SA1015Y/1E	J	2SA1015(Y)	AC
Q404	VS2SA1015Y/1E	J	2SA1015(Y)	AC
Q405	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q409	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q410	VS2SA1015Y/1E	J	2SA1015(Y)	AC
Q501	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q601	VS2SC2655Y/-1	J	2SC2655(Y)	AE
⚠Q602	VS2SD1554//1E	J	2SD1554	AL
Q651	VS2SC1815YW-1	J	2SC1815(Y)	AC
Q752	VS2SA1013//1E	J	2SA1013	AD
Q754	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q791	VS2SC2655Y/-1	J	2SC2655(Y)	AE
Q2001	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q2002	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q2004	VS2SC945AQ/-1	J	2SC945(AQ)	AB
Q2005	VS2SA1015Y/1E	J	2SA1015(Y)	AC
DIODES				
D52	RH-EX0701GEZZ	J	Zener Diode	AB
D301	VHD1SS119//-1	J	1SS119	AB
D303	RH-EX0317CEZZ	J	Zener Diode	AA
D401	VHD1SS119//-1	J	1SS119	AB
D402	VHD1SS119//-1	J	1SS119	AB
D403	RH-EX0280CEZZ	J	Zener Diode	AA
D404	RH-EX0092CEZZ	J	Zener Diode	AB
D405	VHD1SS119//-1	J	1SS119	AB
D451	RH-EX0103CEZZ	J	Zener Diode	AB
D501	RH-DX0110CEZZ	J	Diode	AB
⚠D502	RH-DX0302CEZZ	J	Diode	AC
D601	RH-EX0313CEZZ	J	Zener Diode	AA
D602	RH-EX0312CEZZ	J	Zener Diode	AA
D651	RH-DX0131CEZZ	J	Diode	AC
▲⚠D653	VHD1SS119//-1	J	1SS119	AB
▲⚠D654	RH-EX0313CEZZ	J	Zener Diode	AA
⚠D701	RH-DX0154CEZZ	J	Diode	AC
⚠D702	RH-DX0154CEZZ	J	Diode	AC
⚠D703	RH-DX0154CEZZ	J	Diode	AC
⚠D704	RH-DX0154CEZZ	J	Diode	AC
D705	VHD1SS119//-1	J	1SS119	AB
⚠D706	RH-EX0238CEZZ	J	Zener Diode	AC
▲⚠D707	VHSS6785GLB1E	J	Sl.Controlld Rectifier	AL

—— End of PWB-A ——

PWB-A DUNTK8628WEV1
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
DIODES (Continued)				
⚠D709	RH-DX0302CEZZ	J	Diode	AC
⚠D710	RH-DX0131CEZZ	J	Diode	AC
⚠D711	RH-DX0302CEZZ	J	Diode	AC
⚠D712	RH-DX0154CEZZ	J	Diode	AC
⚠D713	RH-DX0131CEZZ	J	Diode	AC
D754	RH-EX0293CEZZ	J	Zener Diode	AA
D756	RH-DX0110CEZZ	J	Diode	AB
D757	VHD1SS119//-1	J	1SS119	AB
D760	RH-DX0110CEZZ	J	Diode	AB
D761	RH-DX0110CEZZ	J	Diode	AB
D762	RH-DX0110CEZZ	J	Diode	AB
D790	VHD1SS119//-1	J	1SS119	AB
D791	VHD1SS119//-1	J	1SS119	AB
D792	RH-EX0312CEZZ	J	Zener Diode	AA
D793	VHD1SS119//-1	J	1SS119	AB
D2001	VHD1SS119//-1	J	1SS119	AB
D2002	VHD1SS119//-1	J	1SS119	AB
D2003	VHD1SS119//-1	J	1SS119	AB
D2005	VHD1SS119//-1	J	1SS119	AB
D2007	VHD1SS119//-1	J	1SS119	AB
D2008	VHD1SS119//-1	J	1SS119	AB
D2009	VHD1SS119//-1	J	1SS119	AB
D2010	VHD1SS119//-1	J	1SS119	AB
D2011	VHD1SS119//-1	J	1SS119	AB
▲⚠IC651	RH-FX0007CEZZ	J	Photocoupler	AE
⚠IC703	RH-FX0007CEZZ	J	Photocoupler	AE
PACKAGED CIRCUITS				
⚠PR701	RMPTP0026CEZZ	J	Packaged Circuit	AF
X801	RCRSB0001PEZZ	R	Crystal	AL
FILTERS				
CF301	RFiLC0029TAZZ	J	Filter	AD
CF302	RFiLC0267CEZZ	J	Filter	AD
CF401	RFiLC0013CEZZ	J	Filter	AE
CF601	RFiLA0034CEZZ	J	Filter	AD
CF2001	RFiLA0077CEZZ	J	Filter	AF
SF201	RFiLC0137CEZZ	J	Filter	AH
COILS AND TRANSFORMERS				
L201	VP-XFR82K0000	J	Peaking 0.82μH	AB
L202	VP-XFR68K0000	J	Peaking 0.68μH	AB
L204	RCiLI0588CEZZ	J	IF Coil	AF
L206	VP-MK100K0000	J	Peaking10μH	AB
L208	RCiLI0599CEZZ	J	IF Coil	AF

PWB-A DUNTK8628WEV1
MAIN UNIT (Continued)

COILS AND TRANSFORMERS (Continued)

Ref. No.	Part No.	★	Description		Code
L301	VP-OF8R2K0000	J	Peaking	8.2μH	AD
L302	VP-CF100K0000	J	Peaking	10μH	AB
L401	VP-XF680K0000	J	Peaking	68μH	AB
L402	VP-XF680K0000	J	Peaking	68μH	AB
L407	VP-XF680K0000	J	Peaking	68μH	AB
L403	VP-XF120K0000	J	Peaking	12μH	AB
L404	VP-XF2R7K0000	J	Peaking	2.7μH	AB
L405	VP-XF6R8K0000	J	Peaking	6.8μH	AB
L406	VP-XF8R2K0000	J	Peaking	8.2μH	AB
⚠L701	RCiLF0235CEZZ	J	Coil		AK
L790	VP-XF4R7K0000	J	Peaking	4.7μH	AB
L2002	RCiLB0125CEZZ	J	Oscillation Coil		AG
⚠T601	RTRNZ0168CEZZ	J	Transformer		AH
▲⚠T602	RTRNF0108PEZZ	R	H-Output		
⚠T701	RTRNZ0067PEZZ	R	Transformer		AK

CONTROL

Ref. No.	Part No.	★	Description	Code
▲⚠R727	RVR-M4328CEZZ	J	1K(B)	AC

CAPACITORS

〔 *EL. ···Electrolytic, M-Poly. ··· Metalized Polypro Film* 〕

Ref. No.	Part No.	★				Code
C51	VCEAGA1HW225M	J	2.2	50V	EL.	AB
C52	VCEAGA1CW108M	J	1000	16V	EL.	AD
C54	VCEAGA1CW476M	J	47	16V	EL.	AB
C55	VCEAGA1HW336M	J	33	50V	EL.	AB
C56	VCSATA1CE226K	J	22	16V	Tantalum	AD
C201	VCKYMN1HB102K	J	1000p	50V	Ceramic	AA
C202	VCEAGA1CW107M	J	100	16V	EL.	AB
C203	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C204	VCKYMN1HB102K	J	1000p	50V	Ceramic	AA
C206	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C207	VCEAGA1HW474T	J	0.47	50V	EL.	AA
C208	VCEAGA1CW228M	J	2200	16V	EL.	AE
C209	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C210	VCEAGA1HW474T	J	0.47	50V	EL.	AA
C211	VCKYMN1CX222M	J	2200p	16V	Ceramic	AA
C212	VCEAGA1CW228M	J	2200	16V	EL.	AE
C213	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C214	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C215	VCKYMN1HB102K	J	1000p	50V	Ceramic	AA
C301	VCEAGA1CW337M	J	330	16V	EL.	AC
C302	VCKYMN1HB151K	J	150p	50V	Ceramic	AA
C303	VCCSMN1HL330J	J	33p	50V	Ceramic	AA
C304	VCQYTA1HM182K	J	1800p	50V	Mylar	AA
C305	VCEAGA1CW106M	J	10	16V	EL.	AA
C306	VCE9GA1CW106M	J	10	16V	EL. (N.P)	AB

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MAIN UNIT (Continued)

CAPACITORS (Continued)

Ref. No.	Part No.	★				Code
C309	VCQYTA1HM392K	J	3900p	50V	Mylar	AB
C310	VCQYTA1HM104K	J	0.1	50V	Mylar	AC
C311	VCEAGA1CW477M	J	470	16V	EL.	AC
C312	VCEAGA1CW107M	J	100	16V	EL.	AB
C313	VCEAGA1CW226M	J	22	16V	EL.	AB
C314	VCEAGA0JW476M	J	47	6.3V	EL.	AB
C315	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C321	VCEAGA1CW228M	J	2200	16V	EL.	AE
C352	VCE9GA1HW225M	J	2.2	50V	EL. (N.P)	AB
C353	VCEAGA1CW476M	J	47	16V	EL.	AB
C354	VCEAGA1CW107M	J	100	16V	EL.	AB
C358	VCE9GA1HW225M	J	2.2	50V	EL. (N.P)	AB
C359	VCE9GA1HW225M	J	2.2	50V	EL. (N.P)	AB
C365	VCE9GA1HW225M	J	2.2	50V	EL. (N.P)	AB
C401	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C402	VCEAGA1CW227M	J	220	16V	EL.	AC
C403	VCKYMN1HB102K	J	1000p	50V	Ceramic	AA
C404	VCCSMN1HL270J	J	27p	50V	Ceramic	AA
C405	VCCCMN1HH180J	J	18p	50V	Ceramic	AA
C406	VCQYTA1HM104K	J	0.1	50V	Mylar	AC
C407	VCEAGA1HW105M	J	1.0	50V	EL.	AC
C408	VCEAGA1CW106M	J	10	16V	EL.	AA
C409	VCEAGA1HW105M	J	1.0	50V	EL.	AC
C412	VCEAGA1CW106M	J	10	16V	EL.	AA
C413	VCE9GA1HW105M	J	1.0	50V	EL. (N.P)	AB
C414	VCEAGA1HW335M	J	3.3	50V	EL.	AB
C415	VCCSMN1HL330J	J	33p	50V	Ceramic	AA
C416	VCEAGA1CW107M	J	100	16V	EL.	AB
C417	VCKYPA1HB391K	J	390p	50V	Ceramic	AA
C418	VCKYMN1HB101K	J	100p	50V	Ceramic	AA
C419	VCEAGA1CW337M	J	330	16V	EL.	AC
C420	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C421	VCEAGA1HW335M	J	3.3	50V	EL.	AB
C422	VCE9GA1HW105M	J	1.0	50V	EL. (N.P)	AB
C423	VCEAGA1CW106M	J	10	16V	EL.	AA
C427	VCEAGA0JW477M	J	470	6.3V	EL.	AB
C428	VCEAGA1HW225M	J	2.2	50V	EL.	AB
C450	VCEAGA1CW226M	J	22	16V	EL.	AB
C451	VCFYHA1HA563J	J	0.056	50V	Mylar	AB
C501	VCSATA1CE225K	J	2.2	16V	Tantalum	AB
C502	VCEAGA1HW225M	J	2.2	50V	EL.	AB
C503	VCFYSA1JA564J	J	0.56	63V	Mylar	AE
C504	VCKYPA2HB391K	J	390p	500V	Ceramic	AA
C505	VCQYTA1HM473K	J	0.047	50V	Mylar	AB
C506	VCQYTA1HM104K	J	0.1	50V	Mylar	AC
C507	VCQYTA1HM103K	J	0.01	50V	Mylar	AB
C508	VCEAGA1VW107M	J	100	35V	EL.	AC
C509	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C510	VCEAGA1VW477M	J	470	35V	EL.	AD
C511	VCEACA1HC335M	J	3.3	50V	EL.	AB
C512	VCEAGA1HW225M	J	2.2	50V	EL.	AB

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MAIN UNIT (Continued)

CAPACITORS (Continued)

Ref. No.	Part No.	★	Description			Code
C513	VCEAGA1EW477M	J	470	25V	EL.	AD
C515	VCFYSA1JA473J	J	0.047	63V	Mylar	AC
C601	VCCSPA1HL270J	J	27p	50V	Ceramic	AA
C602	VCKYPA1HB102K	J	1000p	50V	Ceramic	AA
C603	VCQYTA1HM273J	J	0.027	50V	Mylar	AB
C604	VCEAGA1EW227M	J	220	25V	EL.	AC
C605	VCKYPA1HB472K	J	4700p	50V	Ceramic	AA
▲⚠C607	VCFPPC3CA272H	J	2700p	1600V	M-Poly.	AD
▲⚠C608	RC-KZ0040CEZZ	J	820p	2kV	Ceramic	AD
▲⚠C610	VCFPPC3CA332H	J	3300p	1600V	M-Poly.	AD
C612	VCFPPD2DB334J	J	0.33	200V	M-Poly.	AF
C613	VCKYPA1HB102K	J	1000p	50V	Ceramic	AA
C630	VCEAGA1HW475M	J	4.7	50V	EL.	AB
C631	VCQYTA1HM273K	J	0.027	50V	Mylar	AB
C632	VCEAGA1CW106M	J	10	16V	EL.	AA
C633	VCEAGA1CW337M	J	330	16V	EL.	AC
C651	VCKYPB2HE103P	J	0.01	500V	Ceramic	AB
C652	VCEAGA1HW335M	J	3.3	50V	EL.	AB
C654	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C655	VCQYTA1HM103K	J	0.01	50V	Mylar	AB
⚠C701	RC-FZ004SGEZZ	J	0.047	AC125V	Plastic	AF
C702	VCKYPB2HE103P	J	0.01	500V	Ceramic	AB
C703	VCKYPB2HE103P	J	0.01	500V	Ceramic	AB
C704	VCKYPB2HE103P	J	0.01	500V	Ceramic	AB
⚠C705	RC-EZ0183CEZZ	J	620	200V	EL.	AN
⚠C706	RC-KZ0030CEZZ	J	0.0033	AC250V	Ceramic	AD
C707	VCKYPA2HB272K	J	2700p	500V	Ceramic	AA
C708	VCKYPA2HB391K	J	390p	500V	Ceramic	AA
C709	VCQPSB2DA473K	J	0.047	200V	M-Poly.	AB
C713	RC-EZ0378CEZZ	J	100	160V	EL.	AG
C714	VCKYPA1HB102K	J	1000p	50V	Ceramic	AA
▲⚠C715	VCQYTA1HM103J	J	0.01	50V	Mylar	AA
C716	VCKYPA1HB471K	J	470p	50V	Ceramic	AA
C717	VCEAGA1VW106M	J	10	35V	EL.	AC
C719	VCEAGA2EW106M	J	10	250V	EL.	AC
C720	VCKYPA2HB152K	J	1500p	500V	Ceramic	AA
C721	VCEAGA1EW108M	J	1000	25V	EL.	AD
C722	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C723	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C724	VCEAGA1HW475M	J	4.7	50V	EL.	AB
C725	VCKYPA2HB102K	J	1000p	500V	Ceramic	AA
C727	RC-KZ0040CEZZ	J	820p	2kV	Ceramic	AD
C757	VCEAGA1CW477M	J	470	16V	EL.	AC
C790	VCEAGA1CW337M	J	330	16V	EL.	AC
C791	VCEAGA1AW107M	J	100	10V	EL.	AB
C801	VCQYTA1HM223K	J	0.022	50V	Mylar	AB
C802	VCEAGA1HW474T	J	0.47	50V	EL.	AA
C803	VCCCMN1HH120J	J	12p	50V	Ceramic	AA
C804	VCEAGA1HW104M	J	0.1	50V	EL.	AA
C805	VCEAGA1HW104M	J	0.1	50V	EL.	AA

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MAIN UNIT (Continued)

CAPACITORS (Continued)

Ref. No.	Part No.	★	Description			Code
C806	VCEAGA1HW104M	J	0.1	50V	EL.	AA
C2001	VCEAGA1AW107M	J	100	10V	EL.	AB
C2002	VCKYMN1HB101K	J	100p	50V	Ceramic	AA
C2003	VCKYMN1HB101K	J	100p	50V	Ceramic	AA
C2004	VCKYMN1HB101K	J	100p	50V	Ceramic	AA
C2005	VCKYMN1HB101K	J	100p	50V	Ceramic	AA
C2006	VCE9GA1HW105M	J	1.0	50V	EL. (N.P)	AB
C2007	VCKYMN1HB561K	J	560p	50V	Ceramic	AA
C2008	VCQYTA1HM102K	J	1000p	50V	Mylar	AA
C2009	VCEAGA1AW107M	J	100	10V	EL.	AB
C2010	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C2011	VCEAGA1HW225M	J	2.2	50V	EL.	AB
C2013	VCQYTA1HM561J	J	560p	50V	Mylar	
C2014	VCEAGA1AW107M	J	100	10V	EL.	AB
C2015	VCEAGA1HW105M	J	1.0	50V	EL.	AC
C2016	VCKYMN1CY103N	J	0.01	16V	Ceramic	AA
C2017	VCEAGA1AW476M	J	47	10V	EL.	AA
C2018	VCEAGA1AW338M	J	3300	10V	EL.	AF
C2019	VCEAGA0JW337M	J	330	6.3V	EL.	AB
C2020	VCQYTA1HM272K	J	2700p	50V	Mylar	AA
C2021	VCKYMN1HB221K	J	220p	50V	Ceramic	AA
C2022	VCKYMN1HB101K	J	100p	50V	Ceramic	AA
C2023	VCEAGA1HW335M	J	3.3	50V	EL.	AB

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MAIN UNIT (Continued)

RESISTORS
(*M-Ox.···Metal Oxide, M-Film···Metal Film*)

Ref. No.	Part No.	★	Description	Code
R51	VRD-MN2BE561J	J	560 1/8W Carbon	AA
R52	VRD-MN2BE561J	J	560 1/8W Carbon	AA
R53	VRD-MN2BE561J	J	560 1/8W Carbon	AA
R54	VRD-MN2BE823J	J	82k 1/8W Carbon	AA
R55	VRD-MN2BE1R0J	J	1 1/8W Carbon	AA
R57	VRD-RM2HD222J	J	2.2k 1/2W Carbon	AA
R201	VRD-MN2BE151J	J	150 1/8W Carbon	AA
R202	VRD-MN2BE122J	J	1.2k 1/8W Carbon	AA
R203	VRD-MN2BE270J	J	27 1/8W Carbon	AA
R204	VRD-MN2BE682J	J	6.8k 1/8W Carbon	AA
R205	VRD-MN2BE121J	J	120 1/8W Carbon	AA
R206	VRD-MN2BE222J	J	2.2k 1/8W Carbon	AA
R207	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R209	VRD-MN2BE681J	J	680 1/8W Carbon	AA
R210	VRD-MN2BE331J	J	330 1/8W Carbon	AA
R211	VRD-MN2BE154J	J	150k 1/8W Carbon	AA
R212	VRD-MN2BE153J	J	15k 1/8W Carbon	AA
R301	VRD-MN2BE562J	J	5.6k 1/8W Carbon	AA
R302	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R303	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R304	VRD-MN2BE681J	J	680 1/8W Carbon	AA
R305	VRD-MN2BE4R7J	J	4.7 1/8W Carbon	AA
R306	VRD-MN2BE182J	J	1.8k 1/8W Carbon	AA
R307	VRD-MN2BE562J	J	5.6k 1/8W Carbon	AA
R308	VRD-MN2BE333J	J	33k 1/8W Carbon	AA
R309	VRD-MN2BE122J	J	1.2k 1/8W Carbon	AA
R310	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R317	VRS-VV3LB820J	J	82 3W M-Ox.	AB
R318	VRD-MN2BE470J	J	47 1/8W Carbon	AA
R319	VRD-MN2BE223J	J	22k 1/8W Carbon	AA
R320	VRS-VV3DB120J	J	12 2W M-Ox.	AA
R353	VRD-MN2BE823J	J	82k 1/8W Carbon	AA
R354	VRD-MN2BE823J	J	82k 1/8W Carbon	AA
R355	VRD-MN2BE222J	J	2.2k 1/8W Carbon	AA
R356	VRD-MN2BE222J	J	2.2k 1/8W Carbon	AA
R359	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R401	VRD-MN2BE682J	J	6.8k 1/8W Carbon	AA
R402	VRD-MN2BE561J	J	560 1/8W Carbon	AA
R403	VRD-MN2BE333J	J	33k 1/8W Carbon	AA
R404	VRD-MN2BE222J	J	2.2k 1/8W Carbon	AA
R405	VRD-MN2BE182J	J	1.8k 1/8W Carbon	AA
R406	VRD-MN2BE683J	J	68k 1/8W Carbon	AA
R407	VRD-MN2BE104J	J	100k 1/8W Carbon	AA
R410	VRD-MN2BE105J	J	1 M 1/8W Carbon	AA
R411	VRD-MN2BE000J	J	0 1/8W Carbon	AA
R412	VRD-MN2BE105J	J	1 M 1/8W Carbon	AA
R414	VRD-MN2BE331J	J	330 1/8W Carbon	AA
R416	VRD-MN2BE682J	J	6.8k 1/8W Carbon	AA
R417	VRD-MN2BE562J	J	5.6k 1/8W Carbon	AA
R418	VRD-MN2BE472J	J	4.7k 1/8W Carbon	AA

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MAIN UNIT (Continued)

RESISTORS (Continued)

Ref. No.	Part No.	★	Description	Code
R419	VRD-MN2BE222J	J	2.2k 1/8W Carbon	AA
R420	VRD-MN2BE472J	J	4.7k 1/8W Carbon	AA
R421	VRD-MN2BE122J	J	1.2k 1/8W Carbon	AA
R422	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R423	VRD-MN2BE391J	J	390 1/8W Carbon	AA
R424	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R425	VRD-RA2BE150J	J	15 1/8W Carbon	AA
R426	VRD-MN2BE101J	J	10 1/8W Carbon	AA
R427	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R428	VRD-MN2BE471J	J	470 1/8W Carbon	AA
R429	VRD-RA2EE331J	J	330 1/4W Carbon	AA
R431	VRD-MN2BE820J	J	82 1/8W Carbon	AA
R433	VRD-MN2BE820J	J	82 1/8W Carbon	AA
R435	VRD-MN2BE820J	J	82 1/8W Carbon	AA
R439	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R441	VRD-RA2EE331J	J	330 1/4W Carbon	AA
R442	VRD-RA2BE101J	J	10 1/8W Carbon	AA
R443	VRD-MN2BE181J	J	180 1/8W Carbon	AA
R444	VRD-RA2EE750J	J	75 1/4W Carbon	AA
R445	VRD-MN2BE331J	J	330 1/8W Carbon	AA
R446	VRD-MN2BE331J	J	330 1/8W Carbon	AA
R447	VRD-MN2BE473J	J	47k 1/8W Carbon	AA
R448	VRD-MN2BE183J	J	18k 1/8W Carbon	AA
R449	VRD-MN2BE101J	J	10 1/8W Carbon	AA
R450	VRD-RM2HD104J	J	100k 1/2W Carbon	AA
R451	VRD-RM2HD104J	J	100k 1/2W Carbon	AA
⚠R452	VRS-SV2HC103J	J	10k 1/2W M-Ox.	AA
R453	VRD-MN2BE392J	J	3.9k 1/8W Carbon	AA
R454	VRD-MN2BE152J	J	1.5k 1/8W Carbon	AA
R455	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R460	VRD-MN2BE182J	J	1.8k 1/8W Carbon	AA
R461	VRD-MN2BE182J	J	1.8k 1/8W Carbon	AA
R462	VRD-MN2BE182J	J	1.8k 1/8W Carbon	AA
R501	VRD-MN2BE472J	J	4.7k 1/8W Carbon	AA
R502	VRD-MN2BE273J	J	27k 1/8W Carbon	AA
R503	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R504	VRD-MN2BE471J	J	470 1/8W Carbon	AA
R505	VRD-MN2BE101J	J	10 1/8W Carbon	AA
R506	VRD-RA2BE683G	J	68k 1/8W Carbon	AA
R507	VRD-RA2BE104G	J	100k 1/8W Carbon	AA
R508	VRD-RA2BE683J	J	68k 1/8W Carbon	AA
R510	VRD-MN2BE154J	J	150k 1/8W Carbon	AA
⚠R511	VRN-VV3ABR27J	J	0.27 1W M-Film	AA
R513	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R514	VRD-RM2HD1R5J	J	1.5 1/2W Carbon	AA
R515	VRD-RA2BE153J	J	15k 1/8W Carbon	AA
R516	VRD-RA2BE153G	J	15k 1/8W Carbon	AA
R517	VRD-RA2BE123G	J	12k 1/8W Carbon	AA
R518	VRD-RA2BE123J	J	12k 1/8W Carbon	AA
R519	VRD-RM2HD561J	J	560 1/2W Carbon	AA
R601	VRD-MN2BE391J	J	390 1/8W Carbon	AA

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MAIN UNIT (Continued)

RESISTORS (Continued)

Ref. No.	Part No.	★	Description			Code
R602	VRD-RM2HD560J	J	56	1/2W	Carbon	AA
⚠R603	VRS-SV3LB150J	J	15	3W	M-Ox.	AB
⚠R604	VRN-VV3ABR22J	J	0.22	1W	M-Film	AA
⚠R606	VRS-VV3AB682J	J	6.8k	1W	M-Ox.	AA
R609	VRD-RM2HD273J	J	27k	1/2W	Carbon	AA
R607	VRD-MN2BE122J	J	1.2k	1/8W	Carbon	AA
R608	VRD-MN2BE101J	J	10	1/8W	Carbon	AA
R630	VRD-MN2BE391J	J	390	1/8W	Carbon	AA
R631	VRD-MN2BE332J	J	3.3k	1/8W	Carbon	AA
R632	VRD-MN2BE472J	J	4.7k	1/8W	Carbon	AA
▲⚠R633	VRD-MN2BE104J	J	100k	1/8W	Carbon	AA
R634	VRD-RM2HD680J	J	68	1/2W	Carbon	AA
R635	VRD-MN2BE101J	J	10	1/8W	Carbon	AA
▲⚠R651	VRD-MN2BE473J	J	47k	1/8W	Carbon	AA
▲⚠R652	VRD-MN2BE683J	J	68k	1/8W	Carbon	AA
R653	VRD-MN2BE333J	J	33k	1/8W	Carbon	AA
R654	VRD-RM2HD392J	J	3.9k	1/2W	Carbon	AA
▲⚠R655	VRD-MN2BE393J	J	39k	1/8W	Carbon	AA
▲⚠R656	VRD-MN2BE333J	J	33k	1/8W	Carbon	AA
▲⚠R658	VRD-MN2BE103J	J	10k	1/8W	Carbon	AA
▲⚠R660	VRD-MN2BE183J	J	18k	1/8W	Carbon	AA
⚠R701	VRC-UA2HG275K	J	2.7M	1/2W	Solid	AA
⚠R702	VRW-KQ3HC1R5K	J	1.5	5W	Cement	AE
R704	VRD-RM2HD273J	J	27k	1/2W	Carbon	AA
R705	VRD-RM2HD273J	J	27k	1/2W	Carbon	AA
⚠R706	VRS-SV2HC151J	J	150	1/2W	M-Ox.	AA
⚠R707	VRW-KQ3HC331K	J	330	5W	Cement	AE
R708	VRD-RM2HD330J	J	33	1/2W	Carbon	AA
R712	VRD-MN2BE123J	J	12k	1/8W	Carbon	AA
R713	VRD-RM2HD681J	J	680	1/2W	Carbon	AA
⚠R714	VRW-KQ4AC6R8K	J	6.8	10W	Cement	AF
⚠R715	VRW-KQ41C2R7K	J	2.7	15W	Cement	AG
R716	VRD-RM2HD223J	J	22k	1/2W	Carbon	AA
⚠R717	VRN-VV3AB1R0J	J	1	1W	M-Film	AA
⚠R718	VRS-VV3AB390J	J	39	1W	M-Ox.	AA
⚠R719	VRN-VV3DBR56J	J	0.56	2W	Metal Film	AA
R720	VRD-RM2HD104J	J	100k	1/2W	Carbon	AA
R721	VRD-RM2HD154J	J	150k	1/2W	Carbon	AA
⚠R723	VRD-RA2EE1R0J	J	1	1/4W	Carbon	AA
▲⚠R724	VRD-RA2EE680J	J	68	1/4W	Carbon	AA
▲⚠R725	VRD-MN2BE183J	J	18k	1/8W	Carbon	AA
▲⚠R726	VRD-RA2EE104G	J	100k	1/4W	Carbon	AA
▲⚠R728	VRD-RA2EE562G	J	5.6k	1/4W	Carbon	AA
R729	VRD-RA2BE154J	J	150k	1/8W	Carbon	AA
⚠R730	VRN-VV3AB4R7J	J	4.7	1W	M-Film	AA
R731	VRD-MN2BE274J	J	270k	1/8W	Carbon	AA
R752	VRD-MN2BE102J	J	1k	1/8W	Carbon	AA
R754	VRD-MN2BE223J	J	22k	1/8W	Carbon	AA
R758	VRD-MN2BE101J	J	10	1/8W	Carbon	AA
R759	VRD-MN2BE103J	J	10k	1/8W	Carbon	AA
R760	VRD-MN2BE562J	J	5.6k	1/8W	Carbon	AA

PWB-A DUNTK8628WEV1
MAIN UNIT (Continued)

RESISTORS (Continued)

Ref. No.	Part No.	★	Description			Code
R763	VRD-RM2HD1R0J	J	1	1/2W	Carbon	AA
R790	VRD-RM2HD101J	J	100	1/2W	Carbon	AA
R791	VRD-MN2BE103J	J	10k	1/8W	Carbon	AA
R793	VRD-MN2BE562J	J	5.6k	1/8W	Carbon	AA
R794	VRD-RM2HD471J	J	470	1/2W	Carbon	AA
R801	VRD-MN2BE332J	J	3.3k	1/8W	Carbon	AA
R802	VRD-MN2BE332J	J	3.3k	1/8W	Carbon	AA
R803	VRD-MN2BE182J	J	1.8k	1/8W	Carbon	AA
R804	VRD-MN2BE182J	J	1.8k	1/8W	Carbon	AA
R805	VRD-MN2BE182J	J	1.8k	1/8W	Carbon	AA
R811	VRD-MN2BE101J	J	10	1/8W	Carbon	AA
R2001	VRD-MN2BE151J	J	150	1/8W	Carbon	AA
R2002	VRD-MN2BE151J	J	150	1/8W	Carbon	AA
R2003	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2004	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2005	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2006	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2007	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2008	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2009	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2010	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R2011	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2012	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2015	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2016	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2017	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2018	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2019	VRD-MN2BE272J	J	2.7k	1/8W	Carbon	AA
R2020	VRD-RA2BE822J	J	8.2k	1/8W	Carbon	AA
R2021	VRD-RA2BE822J	J	8.2k	1/8W	Carbon	AA
R2022	VRD-RA2BE822J	J	8.2k	1/8W	Carbon	AA
R2023	VRD-MN2BE000J	J	0	1/8W	Carbon	AA
R2024	VRD-MN2BE000J	J	0	1/8W	Carbon	AA
R2025	VRD-MN2BE000J	J	0	1/8W	Carbon	AA
R2026	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
R2027	VRD-MN2BE152J	J	1.5k	1/8W	Carbon	AA
R2028	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2029	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2030	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2031	VRD-MN2BE123J	J	12k	1/8W	Carbon	AA
R2035	VRD-MN2BE223J	J	22k	1/8W	Carbon	AA
R2036	VRD-MN2BE102J	J	1k	1/8W	Carbon	AA
R2038	VRD-MN2BE103J	J	10k	1/8W	Carbon	AA
			(13VT-G80/100/120)			
R2039	VRD-MN2BE221J	J	220	1/8W	Carbon	AA
R2040	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R2041	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R2042	VRD-MN2BE223J	J	22k	1/8W	Carbon	AA
R2044	VRD-MN2BE103J	J	10k	1/8W	Carbon	AA
			(13VT-G60)			
R2045	VRD-RA2BE823J	J	82k	1/8W	Carbon	AA

PWB-A DUNTK8628WEV1
MAIN UNIT (Continued)

RESISTORS (Continued)

Ref. No.	Part No.	★	Description	Code
R2046	VRD-MN2BE223J	J	22k 1/8W Carbon	AA
R2047	VRD-MN2BE683J	J	68k 1/8W Carbon	AA
R2048	VRD-MN2BE221J	J	220 1/8W Carbon	AA
R2049	VRD-MN2BE221J	J	220 1/8W Carbon	AA
R2050	VRD-MN2BE221J	J	220 1/8W Carbon	AA
R2051	VRD-RA2BE152J	J	1.5k 1/8W Carbon	AA
R2052	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R2053	VRD-RA2BE152J	J	1.5k 1/8W Carbon	AA
R2054	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R2055	VRD-MN2BE221J	J	220 1/8W Carbon	AA
R2056	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R2057	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R2058	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R2059	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R2060	VRD-MN2BE221J	J	220 1/8W Carbon	AA
R2061	VRD-MN2BE223J	J	22k 1/8W Carbon	AA
R2062	VRD-MN2BE223J	J	22k 1/8W Carbon	AA
R2063	VRD-MN2BE103J	J	10k 1/8W Carbon	AA
R2064	VRD-RA2BE471J	J	470 1/8W Carbon	AA
R2065	VRD-MN2BE183J	J	18k 1/8W Carbon	AA
R2066	VRD-MN2BE224J	J	220k 1/8W Carbon	AA
R2067	VRD-MN2BE333J	J	33k 1/8W Carbon	AA
R2068	VRD-RA2BE273J	J	27k 1/8W Carbon	AA
R2069	VRD-MN2BE152J	J	1.5k 1/8W Carbon	AA
R2071	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R2075	VRD-MN2BE102J	J	1k 1/8W Carbon	AA
R2076	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R2077	VRD-MN2BE564J	J	560k 1/8W Carbon	AA
R2078	VRD-MN2BE223J	J	22k 1/8W Carbon	AA
R2079	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R2080	VRD-RA2BE822J	J	8.2k 1/8W Carbon	AA
R2081	VRD-RA2BE333J	J	33k 1/8W Carbon	AA
R2082	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R2083	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R2084	VRD-RA2BE103J	J	10k 1/8W Carbon	AA

PWB-A DUNTK8628WEV1
MAIN UNIT (Continued)

MISCELANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
⚠F701	QFS-B4023CEZZ	J	Fuse 4A 125V	AC
⚠RY701	RRLYU0036CEZZ	J	Relay	
FB601	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB602	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB701	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB2001	RBLN-0037CEZZ	J	Ferrite Bead	AB
FB2002	RBLN-0036CEZZ	J	Ferrite Bead	AB
FB2003	RBLN-0036CEZZ	J	Ferrite Bead	AB
FH701	QFSHD1009CEZZ	J	Fuse Holder	AA
FH702	QFSHD1010CEZZ	J	Fuse Holder	AA
P301	QPLGN0241CEZZ	J	Plug 2-Pin (S)	AA
P402	QPLGN1278GEZZ	J	Plug 12-Pin (AB)	AC
P403	QPLGN0541CEZZ	J	Plug 5-Pin (AW)	AB
P602	QPLGN0603CEZZ	J	Plug 6-Pin (K)	AB
P651	QPLGN0341CE04	J	Plug 3-Pin	AC
P654	QPLGN0341CE04	J	Plug 3-Pin	AC
P701	QPLGN0207CEZZ	J	Plug 2-Pin (M)	AA
P702	QPLGN0441CEZZ	J	Plug 4-Pin (AL)	AB
P703	QPLGN0269GEZZ	J	Plug 2-Pin (P)	AB
P704	QPLGN0304CEZZ	J	Plug 3-Pin	AB
P705	QPLGN0578GEZZ	J	Plug 5-Pin (AF)	AB
P2001	QPLGN0541CE04	J	Plug 5-Pin	AB
P2002	QPLGN0278GEZZ	J	Plug 2-Pin (AG)	AA
P2003	QPLGN0478GEZZ	J	Plug 4-Pin	AB
P2004	QPLGN0778GEZZ	J	Plug 7-Pin (AD)	AC
RDA501	PRDAR0146PEFW	R	Heat Sink (IC501)	AD
RDA604	PRDAR0021PEFW	R	Heat Sink (Q602)	AD
RDA707	PRDAR0026PEFW	R	Heat Sink (D707)	AD
TP701	QLUGP0102PEZZ	R	Plug	AA

—— End of PWB-A ——

Ref. No.	Part No.	★	Description	Code

PWB-B DUNTK8282WEV1
CRT UNIT

TRANSISTORS

Q852	VS2SC2229O/1E	J	2SC2229(O)	AD
Q854	VS2SC2229O/1E	J	2SC2229(O)	AD
Q856	VS2SC2229O/1E	J	2SC2229(O)	AD
Q881	VS2SA1015Y/1E	J	2SA1015(Y)	AC

COILS

L851	VP-MK221K0000	J	Peaking	220μH	AB
L852	VP-DF4R7K0000	J	Peaking	4.7μH	AB
L853	VP-DFR27M0000	J	Peaking	0.27μH	AB

DIODES

D881	VHD1SS119//-1	J	1SS119	AB
D882	VHD1SS119//-1	J	1SS119	AB
D885	VHD1SS119//-1	J	1SS119	AB

CAPACITORS

(*EL.···Electrolytic*)

C851	VCKYPA1HB271K	J	270p	50V	Ceramic		AA
C852	VCKYPA1HB271K	J	270p	50V	Ceramic		AA
C853	VCKYPA1HB271K	J	270p	50V	Ceramic		AA
C854	RC-KZ0016CEZZ	J	0.01 Ceramic	1.4KV			AC
C881	VCEAGA1CW106M	J	10	16V	EL.		AA
C883	VCEAGA0JW337M	J	330	6.3V	EL.		AB

RESISTORS

(*M-Ox.···Metal Oxide*)

R851	VRD-RA2BE470J	J	47	1/8W	Carbon		AA
R859	VRD-RA2BE470J	J	47	1/8W	Carbon		AA
R867	VRD-RA2BE470J	J	47	1/8W	Carbon		AA
R852	VRD-RA2BE181J	J	180	1/8W	Carbon		AA
R860	VRD-RA2BE181J	J	180	1/8W	Carbon		AA
R868	VRD-RA2BE181J	J	180	1/8W	Carbon		AA
R853	VRD-RA2BE121J	J	120	1/8W	Carbon		AA
R861	VRD-RA2BE121J	J	120	1/8W	Carbon		AA
R869	VRD-RA2BE121J	J	120	1/8W	Carbon		AA
⚠R857	VRS-VV3AB123J	J	12k	1W	M-Ox.		AA
⚠R865	VRS-VV3AB123J	J	12k	1W	M-Ox.		AA
⚠R873	VRS-VV3AB123J	J	12k	1W	M-Ox.		AA

Ref. No.	Part No.	★	Description	Code

PWB-B DUNTK8282WEV1
CRT UNIT

RESISTORS (Continued)

R858	VRD-RM2HD332J	J	3.3k	1/2W	Carbon		AA
R866	VRD-RM2HD332J	J	3.3k	1/2W	Carbon		AA
R874	VRD-RM2HD332J	J	3.3k	1/2W	Carbon		AA
R881	VRD-RA2BE102J	J	1.0k	1/8W	Carbon		AA
R882	VRD-RA2BE471J	J	470	1/8W	Carbon		AA
R883	VRD-RA2BE561J	J	560	1/8W	Carbon		AA
R884	VRD-RA2BE152J	J	1.5k	1/8W	Carbon		AA

MISCELLANEOUS PARTS

P851	QPLGN0541CEZZ	J	Plug 5-Pin (AW)	AB
P852	QPLGN0441CEZZ	J	Plug 4-Pin (AL)	AB
SC851	QSOCV0829CEZZ	J	CRT Socket	AK
	QCNW-1758PEZZ	R	Connecting Cord	
	QCNW-1759PEZZ	R	Connecting Cord	

—— End of PWB-B ——

Ref. No.	Part No.	★	Description	Code

PWB-C DUNTK8269WEV0
POWER SW UNIT

CAPACITOR
(*EL.···Electrolytic*)

C3001	VCEAGA1HW475M	J	4.7	50V	EL.	AB

RESISTORS

R3001	VRD-MN2BE101J	J	10	1/8W	Carbon	AA
R3002	VRD-MN2BE000J	J	0	1/8W	Carbon	AA
R3003	VRD-MN2BE331J	J	330	1/8W	Carbon	AA

SWITCH

S3001	QSW-K0098CEZZ	J	Power	AC

MISCELLANEOUS PARTS

RMC3001	RRMCU0216CEZZ	J	Remote Receiver	AK
P3001	QPLGN0478GEZZ	J	Plug 4-Pin (A4)	AB
	QCNW-1761PEZZ	R	Connecting Cord	

—— End of PWB-C ——

Ref. No.	Part No.	★	Description	Code

PWB-D DUNTK8630WEV0
VCR KEY UNIT

RESISTORS

R2501	VRD-MN2BE562J	J	5.6k	1/8W	Carbon	AA
R2502	VRD-MN2BE103J	J	10k	1/8W	Carbon	AA
R2503	VRD-MN2BE183J	J	18k	1/8W	Carbon	AA
R2504	VRD-MN2BE563J	J	56k	1/8W	Carbon	AA

SWITCHS

S2501	QSW-K0079GEZZ	J	Play	AB
S2502	QSW-K0079GEZZ	J	Stop/Eject	AB
S2503	QSW-K0079GEZZ	J	FF	AB
S2504	QSW-K0079GEZZ	J	Rew.	AB

MISCELLANEOUS PARTS

	QCNW-1762PEZZ	R	Connecting Cord	
P2501	QPLGN0280GEZZ	J	Plug 2-Pin (AG)	AB

—— End of PWB-D ——

VCR SECTION

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

PWB-E	DUNTK5003TEV2	-	VCR UNIT	—

PWB-E DUNTK5003TEV2
VCR UNIT

INTEGRATED CIRCUITS

IC2201	VHiHA8281F/-1	J	HA118281F	AU
IC2202	VHiLC8991//-1	J	LC8991	AH
IC3301	VHiSTV5715/-1	J	STV5715	AH
IC6601	VHiLA7285M/-1	J	LA7285M	AG
IC7701	VHiBA15218F1E	J	BA15218F	AF
IC7702	VHiBA15218F1E	J	BA15218F	AF
IC8801	RH-iX2547CEZZ	J	M37774M5A113GP	AX
IC8802	VHiPST529D2-1	J	IC-PST529D-2	AD
IC8803	VHiBA6209//1E	J	BA6209	AG

TRANSISTORS

Q2201	VS2SA1162Y/-1	J	2SA1162(Y)	AB
Q2202	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q2203	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q2207	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q2208	VS2SA1162Y/-1	J	2SA1162(Y)	AB
Q2214	VS2SA1162Y/-1	J	2SA1162(Y)	AB
Q2215	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q6601	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q6602	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q6603	VSRN2403///-1	J	RN2403	AB
Q6604	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q6605	VS2C3939SQR-1	J	2C3939S(QR)	AC
Q6606	VSRN1404///-1	J	RN1404	AA
Q7701	VS2SA1162Y/-1	J	2SA1162(Y)	AB
Q7702	VS2SD1306-E1E	J	2SD1306	AD
Q7703	VS2SD1306-E1E	J	2SD1306	AD
Q8301	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q8302	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q8303	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q8304	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q8305	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q8801	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q8802	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q8807	VSRN1402///-1	J	RN1402	AA
⚠Q9901	VS2SC4273//-1	J	2SC4273	AF
⚠Q9902	VS2SD2144S/-1	J	2SD2144(S)	AC

PWB-E DUNTK5003TEV2
VCR UNIT

TRANSISTORS (Continued)

Q9903	VS2SC2712Y/-1	J	2SC2712(Y)	AB
Q9904	VS2SA1162Y/-1	J	2SA1162(Y)	AB
Q9911	VS2SD1944K/-1	J	2SD1944(K)	AE
Q9912	VS2C1740SQR1E	J	2SC1740S(QR)	AC
Q9913	VS2SA950-Y/1E	J	2SA950(Y)	AD
Q9914	VSRN1403///-1	J	RN1403	AA
Q9917	VSRN2403///-1	J	RN2403	AB
Q9918	VS2SD471-KL1E	J	2SD471	AC
Q9919	VS2SA950-Y/1E	J	2SA950(Y)	AD

DIODES

D2201	VHD1SS119//-1	J	1SS119	AB
D3301	VHD1SS119//-1	J	1SS119	AB
D3302	VHD1SS119//-1	J	1SS119	AB
D6602	VHD1SS119//-1	J	1SS119	AB
D7701	VHD1SS119//-1	J	1SS119	AB
D7702	VHD1SS119//-1	J	1SS119	AB
D7703	VHD1SS119//-1	J	1SS119	AB
D8301	RH-PX0352CEZZ	J		AC
D8302	RH-PX0348CEZZ	J		AB
D8303	RH-PX0348CEZZ	J		AB
D8304	RH-PX0348CEZZ	J		AB
D8801	VHD1SS119//-1	J	1SS119	AB
D8802	VHD1SS119//-1	J	1SS119	AB
D8803	RH-PX0232GEZZ	J		AF
D8804	RH-PX0232GEZZ	J		AF
D8805	RH-PX0234GEZZ	J		AD
D8806	RH-PX0231GEZZ	J	GP1S24	AF
D8807	RH-PX0231GEZZ	J	GP1S24	AF
D8810	RH-EX0297CEZZ	J	Zener Diode	AA
⚠D9901	RH-DX0083GEZZ	J		AC
⚠D9902	VHDERA1804/-1	J	ERA1804	AD
⚠D9903	VHD1SS119//-1	J	1SS119	AB
⚠D9904	VHD1SS119//-1	J	1SS119	AB
⚠D9905	VHD1SS147//-1	J	1SS147	AA
⚠D9906	VHDRL3Z////-1	J	RL3Z	AE
⚠D9907	VHD1SS147//-1	J	1SS147	AA
⚠D9908	VHDD1NS4///1E	J	D1NS4	AE
D9909	VHD1A3-F///-1	J	1A3-F	AA
D9911	RH-EX0295CEZZ	J	Zener Diode	AA
D9912	VHD1SS119//-1	J	1SS119	AB
D9913	VHD1SS119//-1	J	1SS119	AB
⚠D9915	VHD1SS119//-1	J	1SS119	AB
D9917	RH-EX0301CEZZ	J	Zener Diode	AA

Ref. No.	Part No.	★	Description	Code

PWB-E DUNTK5003TEV2
VCR UNIT (Continued)

DIODES (Continued)

D9923	VHD1SS119//-1	J	1SS119	AB
D9924	RH-EX0309CEZZ	J	Zener Diode	AA
D9925	VHD1SS119//-1	J	1SS119	AB
Q8803	RH-PX0233GEZZ	J		AD
Q8804	RH-PX0233GEZZ	J		AD
⚠IC9901	RH-FX0002GEZZ	J	Photocoupler	AD

CRYSTAL

X5501	RCRSB0087GEZZ	J	Crystal 3.58MHz	AF
X8801	RCRSB0159GEZZ	J	Crystal 16MHz	AF

COILS AND TRANSFORMERS

DL5501	RCiLZ0330GEZZ	J	Delay Line	AL
FL5501	RCiLF0254GEZZ	J	Coil, VCO	AF
L2201	VP-XF101K0000	J	Peaking 100μH	AB
L2203	VP-XF150K0000	J	Peaking 15μH	AB
L2204	VP-XF390K0000	J	Peaking 39μH	AB
L2205	VP-XF120K0000	J	Peaking 12μH	AB
L2210	VP-XF221K0000	J	Peaking 220μH	AB
L2211	VP-DF221K0000	J	Peaking 220μH	AB
L2212	VP-XF560K0000	J	Peaking 56μH	AB
L2215	VP-XF151K0000	J	Peaking 150μH	AB
L2216	VP-XF680K0000	J	Peaking 68μH	AB
L2221	VP-DF101K0000	J	Peaking 100μH	AB
L2223	VP-DF101K0000	J	Peaking 100μH	AB
L3301	VP-DF101K0000	J	Peaking 100μH	AB
L3302	VP-DF101K0000	J	Peaking 100μH	AB
L5503	VP-XF120K0000	J	Peaking 12μH	AB
L5504	VP-XF220K0000	J	Peaking 22μH	AB
L5506	VP-XF560K0000	J	Peaking 56μH	AB
L5507	VP-DF561K0000	J	Peaking 560μH	AB
L6601	VP-DF221K0000	J	Peaking 220μH	AB
L6602	VP-DF101K0000	J	Peaking 100μH	AB
L6605	VP-YF822J0000	J	Peaking 8200μH	AC
L6608	VP-XF120K0000	J	Peaking 12μH	
L8801	VP-DF1R0K0000	J	Peaking 1μH	AB
⚠L9901	RCiLF0002AJZZ	R	Coil, Line Filter	AK
L9902	RCiLP0165CEZZ	J	Coil 22μH	AD
L9903	RCiLP0161CEZZ	J	Coil 10μH	AD
T6601	RTRNH0053GEZZ	J	OSC. Transformer	AE
⚠T9901	RTRNZ0003AJZZ	R	Transformer	AS

Ref. No. | Part No. | ★ | Description | Code

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VCR UNIT (Continued)

CONTROLS

R2201	RVR-M4337GEZZ	J	22K(B)	EE Level	AB
R2202	RVR-M4337GEZZ	J	22K(B)	White Clip	AB
R2203	RVR-M4337GEZZ	J	22K(B)	Carrier	AB
R2204	RVR-M4334GEZZ	J	10K(B)	Deviation	AB
R2205	RVR-M4337GEZZ	J	22K(B)	PB-Y Level	AB
R6623	RVR-M4343GEZZ	J	100K(B)	Bias	AB
R7701	RVR-M4343GEZZ	J	100K(B)	Head Switching Point	AB

CAPACITORS

(EL.···Electrolytic, M-Poly.···Metalized Polypro Film)

C2201	VCCCCY1HH331J	J	330p	50V	Ceramic	AA
C2203	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C2204	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2205	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C2206	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C2207	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C2208	VCKYCY1EF473Z	J	0.047	25V	Ceramic	AB
C2209	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2211	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2212	VCEAGA1CW476M	J	47	16V	EL.	AB
C2216	VCEAGA1HW474M	J	0.47	50V	EL.	AA
C2218	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2219	VCEAGA0JW476M	J	47	6.3V	EL.	AB
C2220	VCE9GA1CW106M	J	10	16V	EL. (N.P)	AB
C2221	VCEAGA1CW106M	J	10	16V	EL.	AA
C2222	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2223	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2224	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2225	VCEAGA1CW106M	J	10	16V	EL.	AA
C2226	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2227	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2228	VCCCCY1HH180J	J	18p	50V	Ceramic	AA
C2229	VCEAGA1HW474M	J	0.47	50V	EL.	AA
C2230	VCKYCY1HB391K	J	390p	50V	Ceramic	AA
C2231	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C2232	VCCCCY1HH151J	J	150p	50V	Ceramic	AA
C2234	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2236	VCEAGA1CW476M	J	47	16V	EL.	AB
C2237	VCEAGA1HW105M	J	1	50V	EL.	AC
C2238	VCEAGA1HW475M	J	4.7	50V	EL.	AB
C2239	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2240	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2241	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2242	VCCCCY1HH820J	J	82p	50V	Ceramic	AA
C2243	VCCCCY1HH7R0D	J	7p	50V	Ceramic	AA
C2244	VCCCCY1HH820J	J	82p	50V	Ceramic	AA
C2245	VCEAGA1HW475M	J	4.7	50V	EL.	AB
C2246	VCEAGA1CW106M	J	10	16V	EL.	AA

Ref. No.	Part No.	★	Description			Code

PWB-E DUNTK5003TEV2
VCR UNIT (Continued)

CAPACITORS (Continued)

C2249	VCCCCY1HH680J	J	68p	50V	Ceramic	AA
C2250	VCKYCY1HB391K	J	390p	50V	Ceramic	AA
C2255	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C2267	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
C2268	VCKYCY1HB682K	J	6800p	50V	Ceramic	AA
C3306	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C3307	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C3308	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3309	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C3310	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C3311	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C3312	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C3314	VCKYCY1CF334Z	J	0.33	16V	Ceramic	AA
C3319	VCEAGA0JW476M	J	47	6.3V	EL.	AB
C3321	VCEAGA1CW476M	J	47	16V	EL.	AB
C3320	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3322	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C5506	VCQYTA1HM333K	J	0.033	50V	Mylar	AA
C5507	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C5508	VCEAEA1HW474M	J	0.47	50V	EL.	AB
C5509	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C5510	VCCCCY1HH151J	J	150p	50V	Ceramic	AA
C5511	VCEAEA1AW336M	J	33	10V	EL.	AB
C5512	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C5514	VCEAGA1HW474M	J	0.47	50V	EL.	AA
C5515	VCQYTA1HM223K	J	0.022	50V	Mylar	AB
C5517	VCEAGA1HW104M	J	0.1	50V	EL.	AA
C5518	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C5519	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C5520	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C5521	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C5522	VCEAGA0JW476M	J	47	6.3V	EL.	AB
C5523	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C5524	VCKYD41CY103N	J	0.01	16V	Ceramic	AA
C5525	VCKYCY1EF473Z	J	0.047	25V	Ceramic	AB
C5526	VCEAGA1HW474M	J	0.47	50V	EL.	AA
C5529	VCCCCY1HH181J	J	180p	50V	Ceramic	AA
C5530	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C6601	VCEAEA1CW106M	J	10	16V	EL.	AB
C6602	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C6603	VCEAEA1CW106M	J	10	16V	EL.	AB
C6604	VCQYTA1HM562K	J	5600p	50V	Mylar	
C6605	VCEAGA1CW106M	J	10	16V	EL.	AA
C6606	VCCCCY1HH151J	J	150p	50V	Ceramic	AA
C6607	VCCCCY1HH271J	J	270p	50V	Ceramic	AA
C6608	VCCCCY1HH151J	J	150p	50V	Ceramic	AA
C6609	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C6610	VCCCCY1HH331J	J	330p	50V	Ceramic	AA
C6611	VCEAGA1CW106M	J	10	16V	EL.	AA
C6613	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C6614	VCKYPA1HB221K	J	220p	50V	Ceramic	AA

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VCR UNIT (Continued)

CAPACITORS (Continued)

C6615	VCQPSA2AA562J	J	5600p	100V	Poly. Film	AC
C6617	VCQYTA1HM123K	J	0.012	50V	Mylar	AA
C6618	VCEAGA1CW226M	J	22	16V	EL.	AB
C6619	VCEAGA1HW474M	J	0.47	50V	EL.	AA
C6620	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6622	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6623	VCEAGA1CW106M	J	10	16V	EL.	AA
C6624	VCEAGA1CW476M	J	47	16V	EL.	AB
C6625	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C6626	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C6627	VCKYCY1CF224Z	J	0.22	16V	Ceramic	AA
C6628	VCKYCY1EB822K	J	8200p	25V	Ceramic	AA
C6642	VCEAGA1HW105M	J	1	50V	EL.	AC
C6643	VCQYTA1HM473K	J	0.047	50V	Mylar	AB
C7701	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7702	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C7703	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7704	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C7705	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7706	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7707	RC-KZ0019GEZZ	J	0.1	25V	Ceramic	AA
C7708	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7709	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7710	RC-KZ0019GEZZ	J	0.1	25V	Ceramic	AA
C7711	VCKYCY1HB561K	J	560p	50V	Ceramic	AA
C7712	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7713	VCKYCY1HB562K	J	5600p	50V	Ceramic	AA
C7714	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C7715	VCE9GA1HW474M	J	0.47	50V	EL. (N.P)	AB
C7716	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7717	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C7718	RC-KZ0019GEZZ	J	0.1	25V	Ceramic	AA
C7719	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7720	VCEAGA1CW106M	J	10	16V	EL.	AA
C7721	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C7722	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C7723	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7724	VCEAGA1CW476M	J	47	16V	EL.	AB
C7725	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C7726	VCEAGA1CW226M	J	22	16V	EL.	AB
C7727	VCEAGA1CW476M	J	47	16V	EL.	AB
C7728	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7729	VCEAEA1CW106M	J	10	16V	EL.	AB
C7730	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C7731	VCEAEA1CW476M	J	47	16V	EL.	AB
C7732	RC-QZA682TAYJ	J	6800p		Mylar	AB
C7733	VCKYCY1HB681K	J	680p	50V	Ceramic	AA
C7739	VCE9EA1HW105M	J	1	50V	EL. (N.P)	AC
C7740	VCE9EA1HW105M	J	1	50V	EL. (N.P)	AC
C7741	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C8801	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA

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VCR UNIT (Continued)

CAPACITORS (Continued)

Ref. No.	Part No.	★	Description			Code
C8805	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C8806	RC-KZ0019GEZZ	J	0.1	25V	Ceramic	AA
C8807	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C8808	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C8809	VCEAEA1HW225M	J	2.2	50V	EL.	AB
C8810	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C8811	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C8813	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C8814	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C8815	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C8816	VCKYCY1HB332K	J	3300p	50V	Ceramic	AA
C8817	RC-KZ0019GEZZ	J	0.1	25V	Ceramic	AA
C8818	VCEAGA1EW476M	J	47	25V	EL.	AB
C8819	RC-KZ0017GEZZ	J	0.047	25V	Ceramic	AA
C8820	VCE9GA1HW105M	J	1	50V	EL. (N.P)	AB
C8821	VCKYCY1EF473Z	J	0.047	25V	Ceramic	AB
C8822	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C8823	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C8824	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C8825	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C8826	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C8827	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C8828	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C8829	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C8830	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C8831	VCEAGA1CW476M	J	47	16V	EL.	AB
C8837	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
⚠C9901	RC-QZ001DGEZZ	J	0.01	AC125V	Plastic	AF
⚠C9902	RC-KZ0176CEZZ	J	3300p	125V	Ceramic	AC
⚠C9903	RC-KZ0234CEZZ	J	100p	125V	Ceramic	AC
⚠C9904	RC-EZ0238CEZZ	J	82	200V	EL.	AE
⚠C9905	RC-KZ0029CEZZ	J	0.01	250V	Ceramic	AC
⚠C9906	VCKYPA2HB221K	J	220p	500V	Ceramic	AA
⚠C9907	VCKYPA1HB472K	J	4700p	50V	Ceramic	AA
⚠C9908	VCKYPA1HB472K	J	4700p	50V	Ceramic	AA
⚠C9909	VCKYPA1HB332K	J	3300p	50V	Ceramic	AA
⚠C9911	VCEAGA1HW475M	J	4.7	50V	EL.	AB
⚠C9912	VCEAGA1EW337M	J	330	25V	EL.	AC
⚠C9913	VCEAGA1EW337M	J	330	25V	EL.	AC
⚠C9914	VCEAVA1HN475M	J	4.7	50V	EL.	AB
⚠C9916	VCEA4A0JN477M	J	470	6.3V	EL.	AC
⚠C9917	VCEAGA0JW108M	J	1000	6.3V	EL.	AC
C9918	RC-KZ0019GEZZ	J	0.1	25V	Ceramic	AA
C9921	VCEAGA1HW105M	J	1.0	50V	EL.	AC
⚠C9930	VCQYTA1HM333K	J	0.033	50V	Mylar	AA
C9931	VCEAGA1HW474M	J	0.47	50V	EL.	AA
C9932	VCEAGA1CW226M	J	22	16V	EL.	AB
C9933	VCEAGA1CW226M	J	22	16V	EL.	AB
C9934	VCEAGA1CW106M	J	10	16V	EL.	AA
C9935	VCKYPA1HB101K	J	100p	50V	Ceramic	AA

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VCR UNIT (Continued)

RESISTORS

〔 *M-Ox.···Metal Oxide, M-Film···Metal Film* 〕

Ref. No.	Part No.	★	Description			Code
R2210	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2211	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA
R2212	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2213	VRS-CY1JF561J	J	560	1/16W	M-Ox.	AA
R2214	VRS-CY1JF392J	J	3.9k	1/16W	M-Ox.	AA
R2215	VRS-CY1JF561J	J	560	1/16W	M-Ox.	AA
R2216	VRS-CY1JF561J	J	560	1/16W	M-Ox.	AA
R2217	VRS-CY1JF561J	J	560	1/16W	M-Ox.	AA
R2218	VRS-CY1JF561J	J	560	1/16W	M-Ox.	AA
R2219	VRS-CY1JF561J	J	560	1/16W	M-Ox.	AA
R2220	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
R2222	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R2223	VRD-RA2EE331J	J	330	1/4W	Carbon	AA
R2224	VRS-CY1JF750J	J	75	1/16W	M-Ox.	AA
R2225	VRS-CY1JF750J	J	75	1/16W	M-Ox.	AA
R2229	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2231	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2232	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R2233	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R2234	VRS-CY1JF681J	J	680	1/16W	M-Ox.	AA
R2235	VRS-CY1JF152J	J	1.5k	1/16W	M-Ox.	AA
R2236	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R2237	VRS-CY1JF822J	J	8.2k	1/16W	M-Ox.	AA
R2238	VRS-CY1JF153J	J	15k	1/16W	M-Ox.	AA
R2239	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R2242	VRD-RA2BE123J	J	12k	1/8W	Carbon	AA
R2243	VRD-RA2BE223J	J	22k	1/8W	Carbon	AA
R2244	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R2245	VRS-CY1JF471J	J	470	1/16W	M-Ox.	AA
R2246	VRS-CY1JF471J	J	470	1/16W	M-Ox.	AA
R2247	VRS-CY1JF472J	J	4.7k	1/16W	M-Ox.	AA
R2248	VRS-CY1JF334J	J	330k	1/16W	M-Ox.	AA
R2249	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
R2250	VRS-CY1JF272J	J	2.7k	1/16W	M-Ox.	AA
R2251	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
R2254	VRS-CY1JF821J	J	820	1/16W	M-Ox.	AA
R2255	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R2271	VRS-CY1JF474J	J	470k	1/16W	M-Ox.	AA
R2276	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R2277	VRS-CY1JF222J	J	2.2k	1/16W	M-Ox.	AA
R2278	VRS-CY1JF564J	J	560k	1/16W	M-Ox.	AA
R2279	VRS-CY1JF562J	J	5.6k	1/16W	M-Ox.	AA
R2280	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R3301	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
R3302	VRS-CY1JF681J	J	680	1/16W	M-Ox.	AA
R3304	VRD-RA2BE681J	J	680	1/8W	Carbon	AA
R3305	VRS-CY1JF562J	J	5.6k	1/16W	M-Ox.	AA
R3306	VRS-CY1JF273J	J	27k	1/16W	M-Ox.	AA
R3307	VRS-CY1JF563J	J	56k	1/16W	M-Ox.	AA
R3309	VRS-CY1JF100J	J	10	1/16W	M-Ox.	AA

Ref. No.	Part No.	★	Description	Code

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VCR UNIT (Continued)

RESISTORS (Continued)

Ref. No.	Part No.	★	Description	Code
R3315	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R3316	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R5510	VRS-CY1JF123J	J	12k 1/16W M-Ox.	AA
R5511	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
R5512	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R5513	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R5514	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R5515	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R5516	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R5517	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R5518	VRS-CY1JF681J	J	680 1/16W M-Ox.	AA
R5519	VRS-CY1JF561J	J	560 1/16W M-Ox.	AA
R5520	VRS-CY1JF271J	J	270 1/16W M-Ox.	AA
R5523	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
R5526	VRD-RA2BE183J	J	18k 1/8W Carbon	AA
R5531	VRS-CY1JF681J	J	680 1/16W M-Ox.	AA
R5536	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA
R5540	VRS-CY1JF182J	J	1.8k 1/16W M-Ox.	AA
R6602	VRD-RA2BE223J	J	22k 1/8W Carbon	AA
R6605	VRS-CY1JF563J	J	56k 1/16W M-Ox.	AA
R6607	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
R6608	VRS-CY1JF183J	J	18k 1/16W M-Ox.	AA
R6609	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA
R6610	VRS-CY1JF153J	J	15k 1/16W M-Ox.	AA
R6611	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA
R6612	VRS-CY1JF683J	J	68k 1/16W M-Ox.	AA
R6613	VRS-CY1JF683J	J	68k 1/16W M-Ox.	AA
R6614	VRS-CY1JF563J	J	56k 1/16W M-Ox.	AA
R6615	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R6616	VRS-CY1JF821J	J	820 1/16W M-Ox.	AA
R6617	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R6618	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
R6619	VRS-CY1JF473J	J	47k 1/16W M-Ox.	AA
R6620	VRS-CY1JF100J	J	10 1/16W M-Ox.	AA
R6621	VRS-CY1JF393J	J	39k 1/16W M-Ox.	AA
R6622	VRS-CY1JF332J	J	3.3k 1/16W M-Ox.	AA
R6624	VRS-CY1JF153J	J	15k 1/16W M-Ox.	AA
R6625	VRS-CY1JF151J	J	150 1/16W M-Ox.	AA
R6626	VRS-CY1JF274J	J	270k 1/16W M-Ox.	AA
R6627	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
R6628	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R6629	VRS-CY1JF181J	J	180 1/16W M-Ox.	AA
R6630	VRS-CY1JF225J	J	2.2M 1/16W M-Ox.	AA
R6632	VRD-RA2BE823J	J	82k 1/8W Carbon	AA
R6633	VRS-CY1JF393J	J	39k 1/16W M-Ox.	AA
R6634	VRD-RA2BE470J	J	47 1/8W Carbon	AA
R6635	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
R6636	VRD-RA2BE4R7J	J	4.7 1/8W Carbon	AA
R6637	VRD-RA2BE333J	J	33k 1/8W Carbon	AA
R6642	VRS-CY1JF153J	J	15k 1/16W M-Ox.	AA
R6643	VRS-CY1JF221J	J	220 1/16W M-Ox.	AA

PWB-E DUNTK5003TEV2
VCR UNIT (Continued)

RESISTORS (Continued)

Ref. No.	Part No.	★	Description	Code
R7702	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R7703	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R7704	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA
R7705	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA
R7706	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA
R7707	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA
R7708	VRS-CY1JF123J	J	12k 1/16W M-Ox.	AA
R7709	VRS-CY1JF564J	J	560k 1/16W M-Ox.	AA
R7710	VRS-CY1JF124J	J	120k 1/16W M-Ox.	AA
R7711	VRS-CY1JF273J	J	27k 1/16W M-Ox.	AA
R7712	VRS-CY1JF224J	J	220k 1/16W M-Ox.	AA
R7715	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R7716	VRS-CY1JF562J	J	5.6k 1/16W M-Ox.	AA
R7717	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R7718	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R7719	VRS-CY1JF394J	J	390k 1/16W M-Ox.	AA
R7720	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
R7721	VRS-CY1JF272J	J	2.7k 1/16W M-Ox.	AA
R7722	VRD-RA2BE564J	J	560k 1/8W Carbon	AA
R7723	VRS-CY1JF333J	J	33k 1/16W M-Ox.	AA
R7724	VRS-CY1JF273J	J	27k 1/16W M-Ox.	AA
R7725	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R7726	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R7727	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R7728	VRS-CY1JF393J	J	39k 1/16W M-Ox.	AA
R7729	VRS-CY1JF562J	J	5.6k 1/16W M-Ox.	AA
R7730	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
R7731	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
R7732	VRS-CY1JF473J	J	47k 1/16W M-Ox.	AA
R7733	VRS-CY1JF332J	J	3.3k 1/16W M-Ox.	AA
R7734	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R7735	VRS-CY1JF273J	J	27k 1/16W M-Ox.	AA
R7736	VRS-CY1JF102J	J	1k 1/16W M-Ox.	AA
R7737	VRS-CY1JF681J	J	680 1/16W M-Ox.	AA
R7738	VRS-CY1JF332J	J	3.3k 1/16W M-Ox.	AA
R7739	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA
R7740	VRS-CY1JF332J	J	3.3k 1/16W M-Ox.	AA
R7741	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R7742	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R7743	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R7744	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R7745	VRS-CY1JF332J	J	3.3k 1/16W M-Ox.	AA
R7746	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R7747	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
R8202	VRS-CY1JF563J	J	56k 1/16W M-Ox.	AA
R8203	VRS-CY1JF183J	J	18k 1/16W M-Ox.	AA
R8204	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R8205	VRS-CY1JF562J	J	5.6k 1/16W M-Ox.	AA
R8211	VRD-RA2BE331J	J	330 1/8W Carbon	AA
R8212	VRD-RA2BE271J	J	270 1/8W Carbon	AA
R8213	VRD-RA2BE331J	J	330 1/8W Carbon	AA

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VCR UNIT (Continued)

RESISTORS (Continued)

Ref. No.	Part No.	★	Description			Code
R8214	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R8215	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R8805	VRS-CY1JF183J	J	18k	1/16W	M-Ox.	AA
R8806	VRS-CY1JF153J	J	15k	1/16W	M-Ox.	AA
R8807	VRS-CY1JF183J	J	18k	1/16W	M-Ox.	AA
R8808	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R8809	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R8810	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R8814	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8815	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8819	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R8820	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8821	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8823	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8826	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R8827	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8828	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8829	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8830	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8831	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8832	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8833	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8834	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8835	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8836	VRS-CY1JF473J	J	47k	1/16W	M-Ox.	AA
R8837	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
R8838	VRS-CY1JF684J	J	680k	1/16W	M-Ox.	AA
R8839	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R8840	VRS-CY1JF000J	J	0	1/16W	M-Ox.	AA
R8842	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R8843	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R8847	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R8848	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R8850	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R8851	VRD-RA2BE102J	J	1k	1/8W	Carbon	AA
R8853	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8854	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8855	VRS-CY1JF822J	J	8.2k	1/16W	M-Ox.	AA
R8856	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8857	VRS-CY1JF822J	J	8.2k	1/16W	M-Ox.	AA
R8858	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8859	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8860	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8861	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8862	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8863	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8864	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
R8865	VRS-CY1JF153J	J	15k	1/16W	M-Ox.	AA
R8866	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R8867	VRS-CY1JF154J	J	150k	1/16W	M-Ox.	AA
R8868	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8869	VRS-CY1JF473J	J	47k	1/16W	M-Ox.	AA
R8870	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R8871	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R8872	VRS-CY1JF154J	J	150k	1/16W	M-Ox.	AA
R8873	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8874	VRS-CY1JF473J	J	47k	1/16W	M-Ox.	AA
R8875	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R8876	VRD-RA2EE151J	J	150	1/4W	Carbon	AA
R8877	VRD-RA2BE123J	J	12k	1/8W	Carbon	AA
R8878	VRS-CY1JF123J	J	12k	1/16W	M-Ox.	AA
R8879	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R8880	VRS-CY1JF154J	J	150k	1/16W	M-Ox.	AA
R8881	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R8882	VRS-CY1JF154J	J	150k	1/16W	M-Ox.	AA
R8888	VRN-VV3AB2R2J	J	2.2	1W	M-Ox.	AA
R8889	VRS-CY1JF102J	J	1k	1/16W	M-Ox.	AA
⚠R9902	VRD-RM2HD124J	J	120k	1/2W	Carbon	AA
⚠R9903	VRD-RM2HD154J	J	150k	1/2W	Carbon	AA
⚠R9904	VRS-VV3DB333J	J	33k	2W	M-Ox	AA
⚠R9905	VRS-VV3AB820J	J	82	1W	M-Ox	AA
⚠R9906	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	AA
⚠R9907	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
⚠R9908	VRD-RA2BE392J	J	3.9k	1/8W	Carbon	AA
⚠R9910	VRS-VV3AB220J	J	22	1W	M-Ox	AA
⚠R9911	VRS-VV3AB220J	J	22	1W	M-Ox	AA
R9914	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
R9915	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
R9916	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA
R9917	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA
R9918	VRS-CY1JF183J	J	18k	1/16W	M-Ox.	AA
R9919	VRS-CY1JF392J	J	3.9k	1/16W	M-Ox.	AA
R9920	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA
R9922	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA
⚠R9923	VRN-VV3ABR68J	J	0.68	1W	M-Ox.	AA
R9953	VRD-RA2BE153J	J	15k	1/8W	Carbon	AA
R9954	VRS-CY1JF472J	J	4.7k	1/16W	M-Ox.	AA
R9955	VRS-CY1JF472J	J	4.7k	1/16W	M-Ox.	AA
R9956	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA
R9957	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R9961	VRS-CY1JF152J	J	1.5k	1/16W	M-Ox.	AA
R9963	VRS-CY1JF472J	J	4.7k	1/16W	M-Ox.	AA
R9964	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	AA

SWITCHES

S8201	QSW-K0002AJZZ	R	All Clear	AD
S8202	QSW-K0002AJZZ	R	Rec	AD
S8203	QSW-K0002AJZZ	R	Sound-Volume Down	AD
S8204	QSW-K0002AJZZ	R	Sound-Volume Up	AD
S8205	QSW-K0002AJZZ	R	Channel Down	AD

Ref. No.	Part No.	★	Description	Code

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VCR UNIT (Continued)

MISCELANEOUS PARTS

S8206	QSW-K0002AJZZ	R	Channel Up	AD
FB8801	RBLN-0014GEZZ	J	Ferrite Bead	AB
J8201	QJAKF0014CEZZ	J	Jack, A/V Input	
	QPLGZ0243GEZZ	J	Plug 2-Pin, (TP2201~2)	AA
	QPLGZ0243GEZZ	J	Plug 2-Pin, (TP2206~7)	AA
	QPLGZ0343GEZZ	J	Plug 3-Pin, (TP2203~5)	AA
	QPLGZ0243GEZZ	J	Plug 2-Pin, (TP5501~2)	AA
	QPLGZ0243GEZZ	J	Plug 2-Pin, (TP6601~2)	AA
P8803	QPLGZ1074GEZZ	J	Plug 10-Pin, (EC)	AC
P8804	QPLGN0247REZZ	J	Plug 2-Pin, (ED)	AA
P8805	QPLGN0778GEZZ	J	Plug 7-Pin, (EE)	AC
P8807	QPLGN0247REZZ	J	Plug 2-Pin, (EG)	AA
P8809	QPLGN1278GEZZ	J	Plug 12-Pin, (EI)	AC
P8811	QPLGN0578GEZZ	J	Plug 5-Pin, (EK)	AB
P8816	QPLGN0270GEZZ	J	Plug 2-Pin, (EP)	AA
	QPLGN0373GEZZ	J	Plug 3-Pin, (TP8801~3)	AA
	QPLGN0273GEZZ	J	Plug 2-Pin, (TP8804~5)	AA
SC8802	QSOCN0684REZZ	J	Socket 6-Pin, (EB)	AB
SC8806	QSOCN0884REZZ	J	Socket 8-Pin, (EF)	AC
SC8808	QSOCN0494REZZ	J	Socket 4-Pin, (EH)	AC

— End of PWB-E —

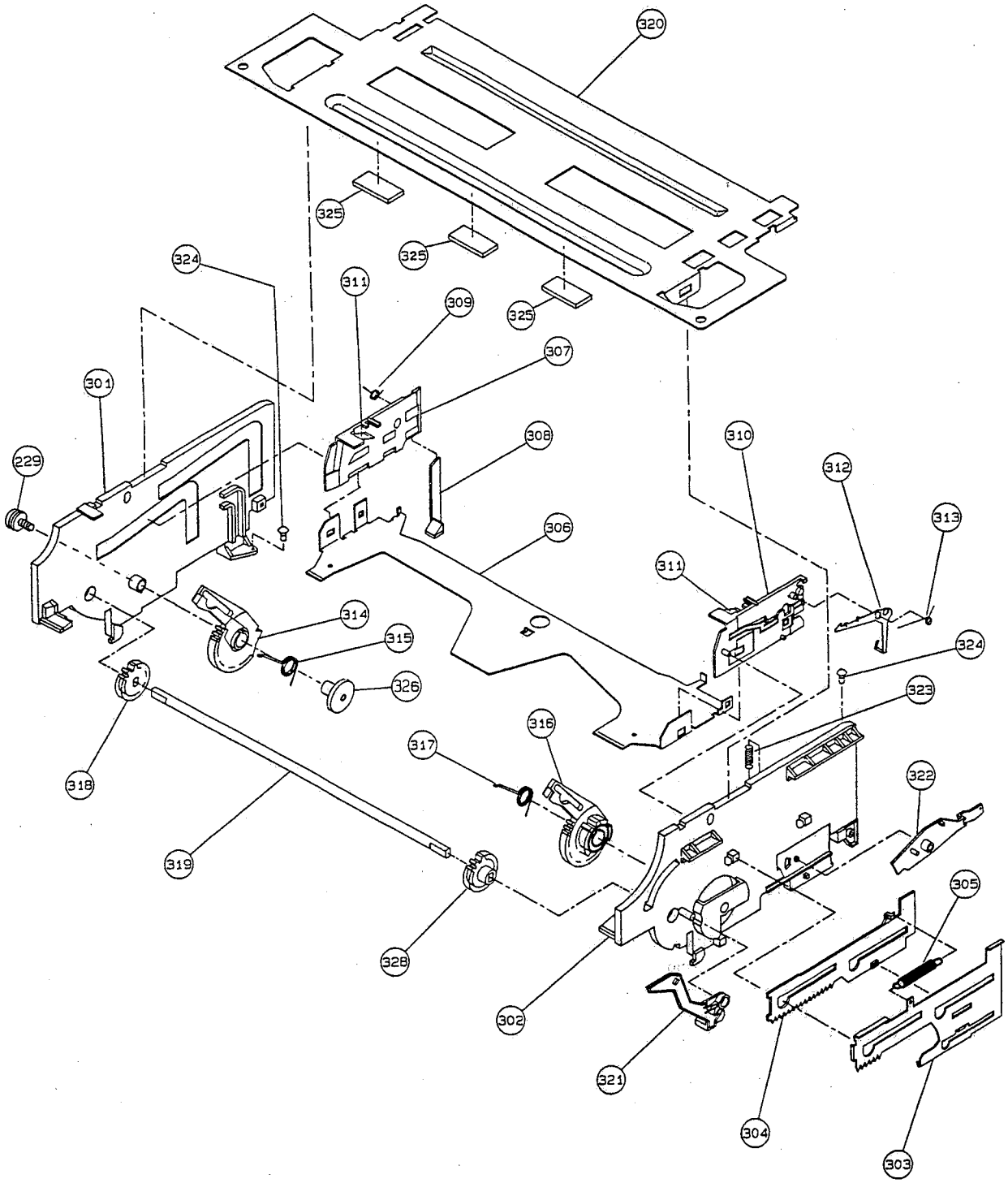
Ref. No.	Part No.	★	Description	Code

CASSETTE HOUSING CONTROL PARTS

300	CHLDX3070TEV0	V	Cassette Housing Control Ass'y	AZ
301	LHLDX1024AJ00	V	Frame (L)	AG
302	LHLDX1025AJ00	V	Frame (R)	AG
303	NGERR3003AJFW	V	Drive Angle	AE
304	NGERR1005AJZZ	V	Double Action Rack	AC
305	MSPRT0381AJFJ	V	Double Action Spring	AC
306	MSLIF0070AJFW	V	Slider	AH
307	LHLDX1026AJ00	V	Holder (L)	AD
308	MLEVP0246AJ00	V	Proof Lever (L)	AB
309	MSPRD0150AJFJ	V	Proof Lever (L) Spring	AB
310	LHLDX1027AJ00	V	Holder (R)	AD
311	MSPRP0159AJFJ	V	Cassette Spring	AD
312	MLEVF0424AJFW	V	Proof Lever (R)	AC
313	MSPRD0151AJFJ	V	Proof Lever (R) Spring	AB
314	NGERH1226AJ00	V	Drive Gear (L)	AD
315	MSPRD0152AJFJ	V	Drive Gear (L) Spring	AC
316	NGERH1227AJ00	V	Drive Gear (R)	AD
317	MSPRD0153AJFJ	V	Drive Gear (R) Spring	AC
318	NGERH1228AJ00	V	Synchro Gear	AC
319	NSFTD0036AJFD	V	Main Shaft	AG
320	LANGF9570AJFW	V	Upper Plate	AH
321	MLEVP0247AJ00	V	Door Open Lever	AC
322	MLEVP0248AJ00	V	Sensor Lever	AB
323	MSPRT0382AJFJ	V	Sensor Lever Spring	AA
324	XHPSD30P06WS0	J	C3P + 6S (for Cassette Housing Control)	AA
325	PSPAH0008AJ00	V	Spacer	AB
326	LBOSZ3091AJFW	V	Frame L Boss	AD

— End of Cassette Housing Control Parts —

CASSETTE HOUSING CONTROL PARTS



MECHANISM CHASSIS PARTS

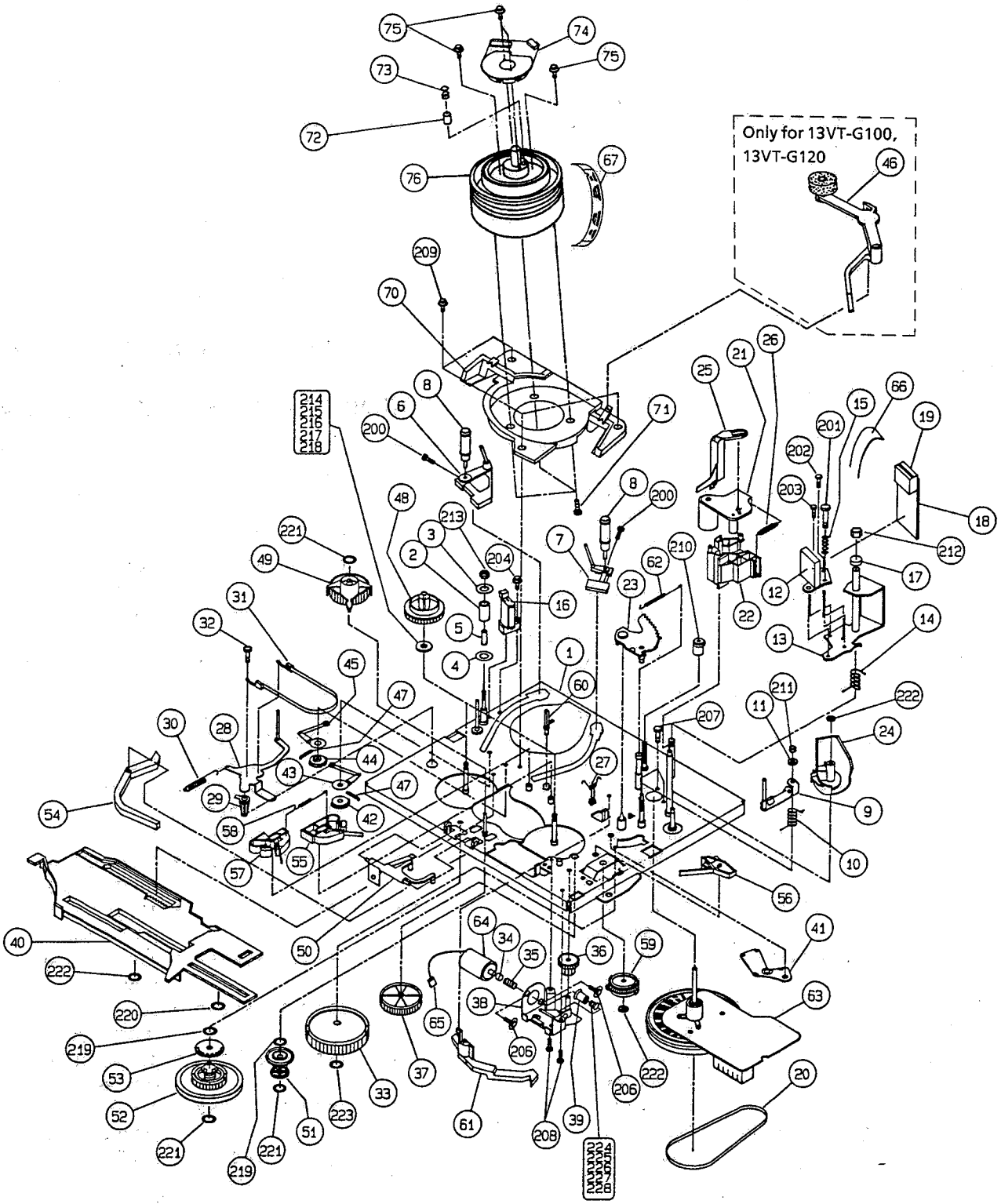
Ref. No.	Part No.	★	Description	Code
1	LCHSM0148AJZZ	V	Main Chassis Ass'y	AY
2	NROLP0084AJZZ	V	Supply Impedance Roller	AB
3	PGiDH0031AJFW	V	Supply Impedance Roller Frange	AD
4	PGiDS0027AJZZ	V	Supply Impedance Roller Lower Frange	AA
5	NSFTL0563AJFW	V	Supply Impedance Roller Inner	AE
6	LPOLM0050GEZZ	J	Supply Pole Base Ass'y	AM
7	LPOLM0051GEZZ	J	Take-Up Pole Base Ass'y	AM
8	NROLP0110GEZZ	J	Guide Roller	AH
9	MLEVF0414AJZZ	V	Reverse Guide Lever Ass'y	AG
10	MSPRD0147AJFJ	V	Reverse Guide Spring	AB
11	PSPAZ0391AJZZ	V	Reverse Guide Spacer	AE
12	RHEDU0083GEZZ	J	Audio/Control Head	AR
13	MLEVF0415AJFW	V	Audio/Control Head Arm	AC
14	MSPRD0148AJFJ	V	Audio/Control Head Arm Spring	AB
15	MSPRC0189AJFJ	V	Azimuth Spring	AB
16	RHEDT0032GEZZ	J	Full Erase Head	AK
17	PSPAZ0392AJZZ	V	Audio/Control Head Arm Spacer	AB
18	QPWBF4735AJZZ	V	Audio/Control Head PWB	AC
19	QSOCN0885REZZ	J	Socket, 8 pin	AB
20	NBLTK0065AJ00	V	Reel Belt	AE
21	MLEVF0416GEZZ	J	Pinch Roller Lever Ass'y	AU
22	MLEVP0237AJZZ	V	Pinch Double Action Lever	AD
23	MLEVF0417AJZZ	V	Pinch Drive Lever Ass'y	AG
24	NGERH1216AJZZ	V	Pinch Drive Cam	AE
25	MLEVP0238AJZZ	V	Open Lever	AC
26	MSPRT0377AJFJ	V	Pinch Double Action Spring	AC
27	MSPRD0149AJFJ	V	Earth Spring	AB
28	MLEVF0418AJZZ	V	Tension Arm Ass'y	AG
29	LBOSZ1001AJZZ	V	Tension Arm Boss	AB
30	MSPRT0378AJFJ	V	Tension Spring	AC
31	LBNDK1008AJZZ	V	Tension Band Ass'y	AG
32	NSFTP0032AJZZ	V	Tension Pole Adjust Cam	AB
33	NGERH1217AJ00	V	Master Cam	AE
34	NPLYV0146AJZZ	V	Motor Pulley	AB
35	NGERW1051AJZZ	V	Worm Gear	AC
36	NGERW1052AJZZ	V	Worm Wheel Gear	AC
37	NGERH1218AJZZ	V	Connect Gear	AC
38	LANGK0161AJZZ	V	Loading Motor Angle Ass'y	AD

MECHANISM CHASSIS PARTS (Continued)

Ref. No.	Part No.	★	Description	Code
39	NBRGP0017AJZZ	V	Bearing	AB
40	MSLiP0006AJZZ	V	Sifter	AH
41	MLEVF0419AJZZ	V	Sifter Drive Lever Ass'y	AG
42	NGERH1219AJZZ	V	Take-Up Loading Gear	AD
43	MLEVF0420AJZZ	V	Take-Up Loading Arm Ass'y	AG
44	NGERH1220AJZZ	V	Supply Loading Gear	AC
45	MLEVF0422AJZZ	V	Supply Loading Arm Ass'y	AG
46	CLEVP0239AJ00	V	Auto Head Cleaner Ass'y *(13VT-G100/120)*	AF
47	MSPRT0379AJFJ	V	Loading Double Action Spring	AB
48	NDAiV1065AJ00	V	Reel Disk	AB
49	MARMP0053AJZZ	V	Reel Idler	AM
50	MLEVP0240AJZZ	V	Clutch Lever	AB
51	NGERH1221AJZZ	V	Clutch Gear Ass'y	AK
52	NPLYV0147AJZZ	V	Reel PUlley Ass'y	AP
53	NGERH1224AJZZ	V	Playback Gear	AD
54	MLEVP0241AJZZ	V	Clutch Connect Arm	AB
55	MLEVP0242AJZZ	V	Take-Up Main Brake Ass'y	AK
56	MLEVP0249AJZZ	V	Take-Up Lock Lever	AC
57	MLEVP0244AJZZ	V	Supply Main Brake Lever Ass'y	AH
58	MSPRT0380AJFJ	V	Main Brake Spring	AB
59	NGERH1225AJZZ	V	Cassette Hausing Control Drive Gear	AD
60	PREFL1004AJZZ	V	Light Guide	AD
61	MLEVP0250AJZZ	V	Slow Brake Ass'y	AD
62	MSPRT0383AJFJ	V	Slow Brake Spring	AC
63	RMOTN2051GEZZ	J	Capstan Motor	BD
64	RMOTM1062GEZZ	J	Loading Motor	AP
65	QCNW-0156AJZZ	V	Lead Wire for Loading Motor	AE
66	QCNW-0155AJZZ	V	FFC for Audio/Control	AF
67	QCNW-0157AJZZ	V	FFC for Drum Motor	AF
68	PSPAZ0434GEFW	J	Preload Collar	AL
69	LX-XZ3032GEFP	J	Preload Collar Mounting Set Screw (M4 + 5WP)	AC
70	PGiDC0052GEFW	J	Drum Base	AK
71	XBPSD30P08J00	J	Drum Base Mounting Screw (SW3P + 8S)	AA
72	QBRSK0034GEZZ	J	Drum Earth Brush	AD
73	MSPRC0194GEFJ	J	Drum Earth Brush Spring	AA
74	RMOTP1116GEZZ	J	Drum Drive Motor	BF
75	XBPSD26P06J00	J	Drum Drive Motor Mounting Screw (SW2.6P + 6S)	AA
76	DDRMW0014TEX0	V	Upper and Lower Drum Ass'y	BQ

End of Mechanism Chassis Parts

MECHANISM CHASSIS PARTS



SCREWS, NUTS AND WASHERS

Ref. No.	Part No.	★	Description	Code
200	LX-XZ3030GEFD	J	Set Screw	AC
201	LX-BZ3095GEFD	J	Audio/Control Head Screw	AA
202	LX-BZ3096GEFD	J	Tilt Adjusting Screw	AA
203	XBPSD26P06000	J	Azimuth Adjusting Screw (2.6P + 6S)	AA
204	XHPSD26P08WS0	J	Screw, C2.6P + 8S (For FE Head)	AA
206	XBPSD30P04J00	J	Screw, SW3P + 4S (For Loading Motor)	AA
207	XHPSD26P06000	J	Screw, C2.6P + 6S (For Capstan Motor)	AA
208	XHPSD26P06WS0	J	Screw, C2.6P + 6S (For Loading Motor Angle Ass'y)	AA
209	XHPSD30P08WS0	J	Screw, C3P + 8S (For Drum Base)	AA
210	LX-NZ3046GEFW	J	X-Position Adjusting Nut	AB
211	LX-NZ3019GEZZ	J	Reverse Guide Adjusting Nut	AB
212	XNFSD40-31000	J	Audio/Control Head Adjusting Nut (M4)	AB
213	XNFSD20-16000	J	S.I. Roller Adjusting Nut (M2)	AA
214	XWHJZ52-05110	J	Washer, W5.2P-11-0.5 (Reel Height Adj.)	AB
215	XWHJZ52-03110	J	Washer, W5.2P-11-0.3 (Reel Height Adj.)	AB
216	XWHJZ52-04110	J	Washer, W5.2P-11-0.4 (Reel Height Adj.)	AB
217	XWHJZ52-06110	J	Washer, W5.2P-11-0.6	AB
218	XWHJZ52-07110	J	Washer, W5.2P-11-0.7	AB
219	XWHJZ31-02070	J	Washer, W3.1P-7-0.26	AA
220	LX-WZ1073GE00	J	Cut Washer, CW4.5P-11-0.5	AB
221	LX-WZ1006GE00	J	Cut Washer, CW2.6P-5.4-0.5	AA
222	LX-WZ1041GE00	J	Cut Washer, CW2.6P-6-0.5	AA
223	XRESJ40-06000	J	E-Ring, E-4	AA
224	LX-WZ1077AJ00	V	Bearing Fixed Washer t0.4 (Worm Gear THRUST PLAY Adj.)	AB
225	LX-WZ1078AJ00	V	Bearing Fixed Washer t0.5 (Worm Gear THRUST PLAY Adj.)	AB
226	LX-WZ1079AJ00	V	Bearing Fixed Washer t0.6 (Worm Gear THRUST PLAY Adj.)	AB

SCREWS, NUTS AND WASHERS (Continued)

Ref. No.	Part No.	★	Description	Code
227	LX-WZ1080AJ00	V	Bearing Fixed Washer t0.7 (Worm Gear THRUST PLAY Adj.)	AB
228	LX-WZ1081AJ00	V	Bearing Fixed Washer t0.8 (Worm Gear THRUST PLAY Adj.)	AB
229	XBPSD30P12JS0		Screw WSW3P + 12S	

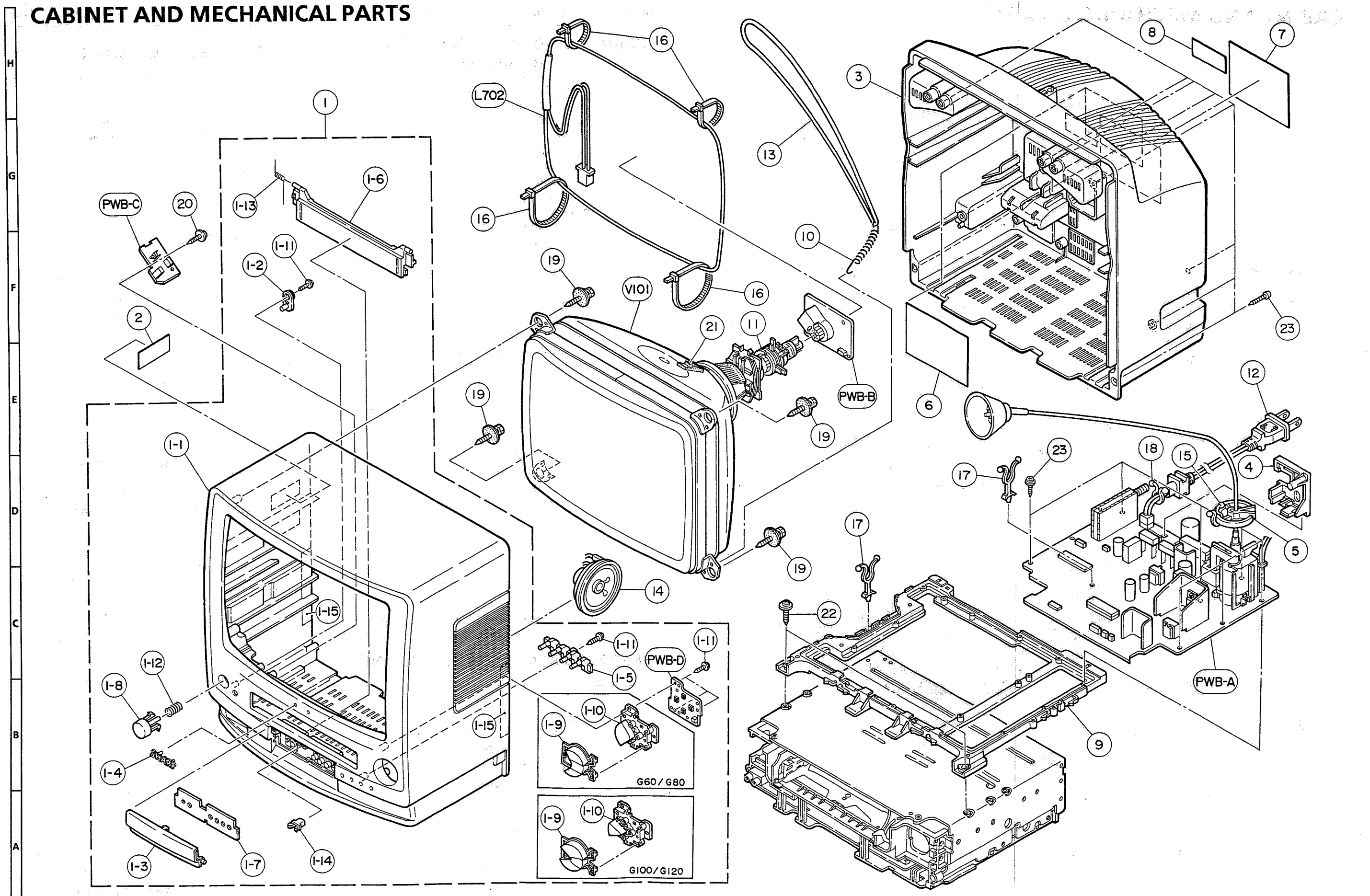
—— End of Screws, Nuts and Washers ——

CABINET AND MECHANICAL PARTS

1	CCABA2267WEV2	R	Cabinet Complete Ass'y *(13VT-G60)*	
1	CCABA2267WEV6	R	Cabinet Complete Ass'y *(13VT-G80)*	
1	CCABA2267WEV0	R	Cabinet Complete Ass'y *(13VT-G100)*	
1	CCABA2267WEV4	R	Cabinet Complete Ass'y *(13VT-G120)*	
1-1	GCABA2267PEKA	R	Cabinet	
1-2	GCOVA0052PESA	R	Cover	
1-3	GDORF0156PEKA	R	Door	
1-4	HBDGB0014PESB	R	Badge, SHARP	AE
1-5	HDECQ0050PESA	R	Decoration Plate	
1-6	HDECQ0057PESA	R	Cassette Cover	
1-7	HINDP0203PESA	R	Indicator	
1-8	JBTN-0160PESA	R	Button, Power	
1-9	JBTN-0164PESA	R	Button, CTL-(A) *(13VT-G60/80)*	
1-9	JBTN-0161PESA	R	Button, CTL-(A) *(13VT-G100/120)*	
1-10	JBTN-0165PESA	R	Button, CTL-(B) *(13VT-G60)*	
1-10	JBTN-0165PESB	R	Button, CTL-(B) *(13VT-G80)*	
1-10	JBTN-0162PESA	R	Button, CTL-(B) *(13VT-G100)*	
1-10	JBTN-0162PESB	R	Button, CTL-(B) *(13VT-G120)*	
1-11	LX-TZ3004CEFD	J	Screw	AA
1-12	MSPRC0005PEFW	R	Spring	AB
1-13	MSPRD0123AJFJ	J	Spring	AC
1-14	PKAI-0001PE00	R	Open-Shut Mechanism	AF
1-15	PSPAH0084PE00	R	Spacer	
2	TCAUS0010PEZZ	R	Caution Card	
3	GCABB2226PEKA	R	Cabinet	

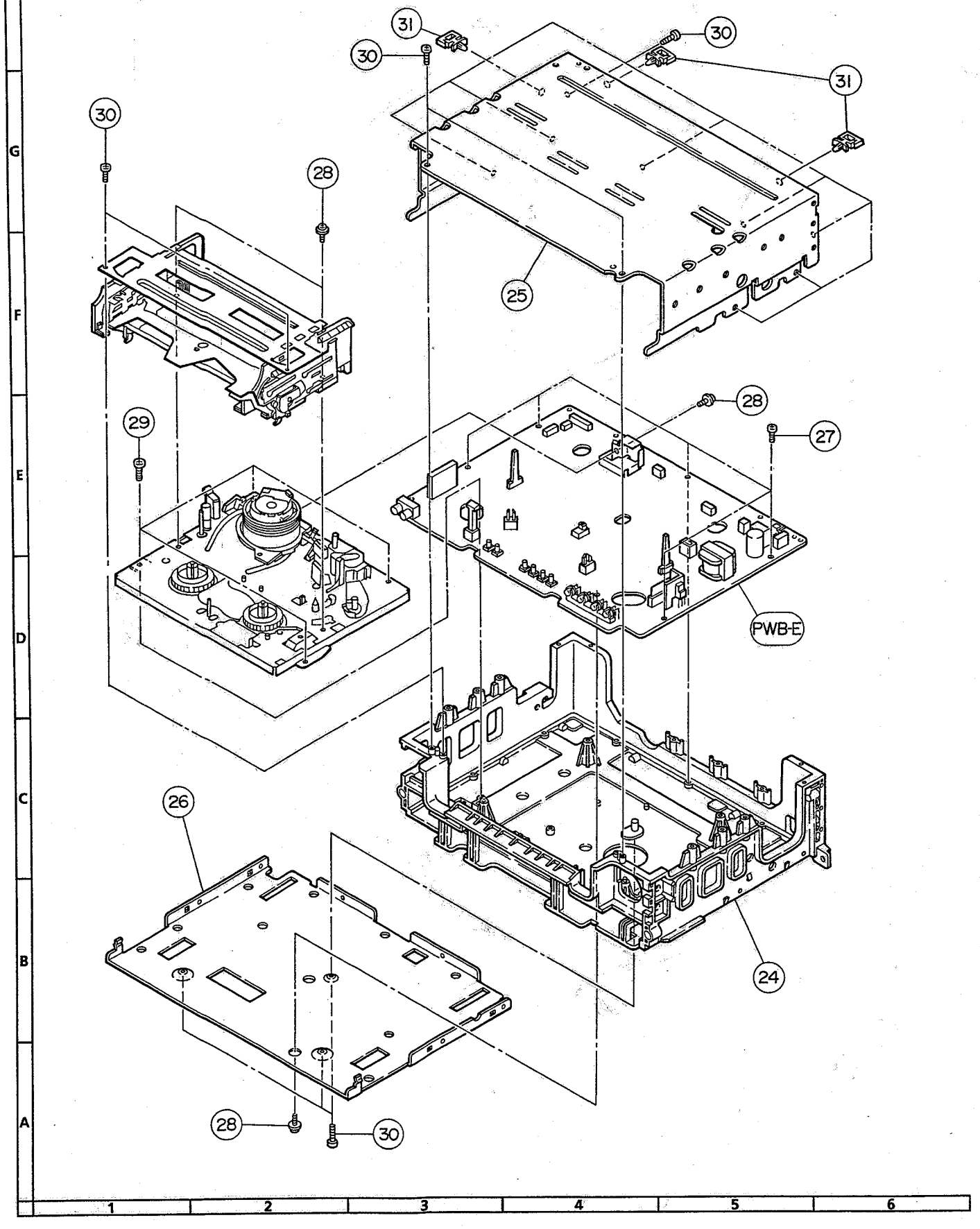
13VT-G60/80
13VT-G100/120

CABINET AND MECHANICAL PARTS



13VT-G60/80
13VT-G100/120

CABINT AND MECHANICAL PARTS



CABINET AND MECHANICAL PARTS (Continued)

Ref. No.	Part No.	★	Description	Code
4	GCOVH0016PEKZ	R	Cover	AE
5	LHLDZ0063PEZZ	R	Holder	AD
6	TCAUH0010PEZZ	R	Caution Card	AB
7	TLABM0710PEZZ	R	Label	AC
8	TLABZ0062PEZZ	R	Label	AB
9	LCHSM0039PEKZ	R	Chassis	
10	MSPRT0001PEFJ	J	Spring	AC
11	PMAGF3006CEZZ	J	Magnet	AK
⚠12	QACCD3024CESA	J	AC Cord	AP
13	QEARC1404PEZZ	R	Ground-Part	AD
14	VSP0080P-H28A	J	Speaker	AM
15	LHLDW0003PEKZ	R	Holder	AB
16	LHLDW1033CE00	J	Holder	AA
17	LHLDW1037PEZZ	R	Holder	AB
18	LHLDW1060PEZZ	R	Holder	AA
19	LX-TZ0013PEFD	R	Screw	AD
20	LX-TZ3004CEFD	J	Screw	AA
21	PSPAG0004PEZZ	R	Wedge (Gum)	AB
22	LX-TZ3011CEFD	J	Screw	
23	XTASD40P20000	J	Screw	
24	GCABB1153AJKZ	R	Frame	
25	PSLDM4500AJFW	R	Top Shield	
26	PSLDM4489AJFW	R	Bottom Shield	
27	LX-HZ3001PEFD	R	Screw	
28	XHPSD30P06WS0	J	Screw	
29	XEBSD40P12000	J	Screw	
30	XEBSD30P12000	J	Screw	
31	LHLDW1065PEKZ	R	Holder	

End of Cabinet and Mechanical Parts

INFRARED REMOTE CONTROL UNIT

(13VT-G60)

RRMCG1103PESA R

93GM1103BTC R Battery Cover

(13VT-G80)

RRMCG1112PESA R

(13VT-G100/G120)

RRMCG1113PESA R

GCOVH0043LASA J Battery Cover

End of Infrared Remote Control Unit

SUPLLIED ACCESSORIES

Ref. No.	Part No.	★	Description	Code
	RRMCG1103PESA	R	Remote Control Unit *(13VT-G60)*	
	RRMCG1112PESA	R	Remote Control Unit *(13VT-G80)*	
	RRMCG1113PESA	R	Remote Control Unit *(13VT-G100/120)*	
	TGAN-0018PEZZ	R	Guarantee Card	AD
	TiNS-5532PEZZ	R	Operation Manual *(13VT-G60)*	
	TiNS-5563PEZZ	R	Operation Manual *(13VT-G80)*	
	TiNS-5525PEZZ	R	Operation Manual *(13VT-G100/120)*	
	QTANTR0018PEZZ	R	Rod Antenna	AQ
	TCAUH0011PEZZ	R	Caution Cord	AB

End of Supllied Accessories

PACKING PARTS *(NOT REPLACEMENT ITEM)*

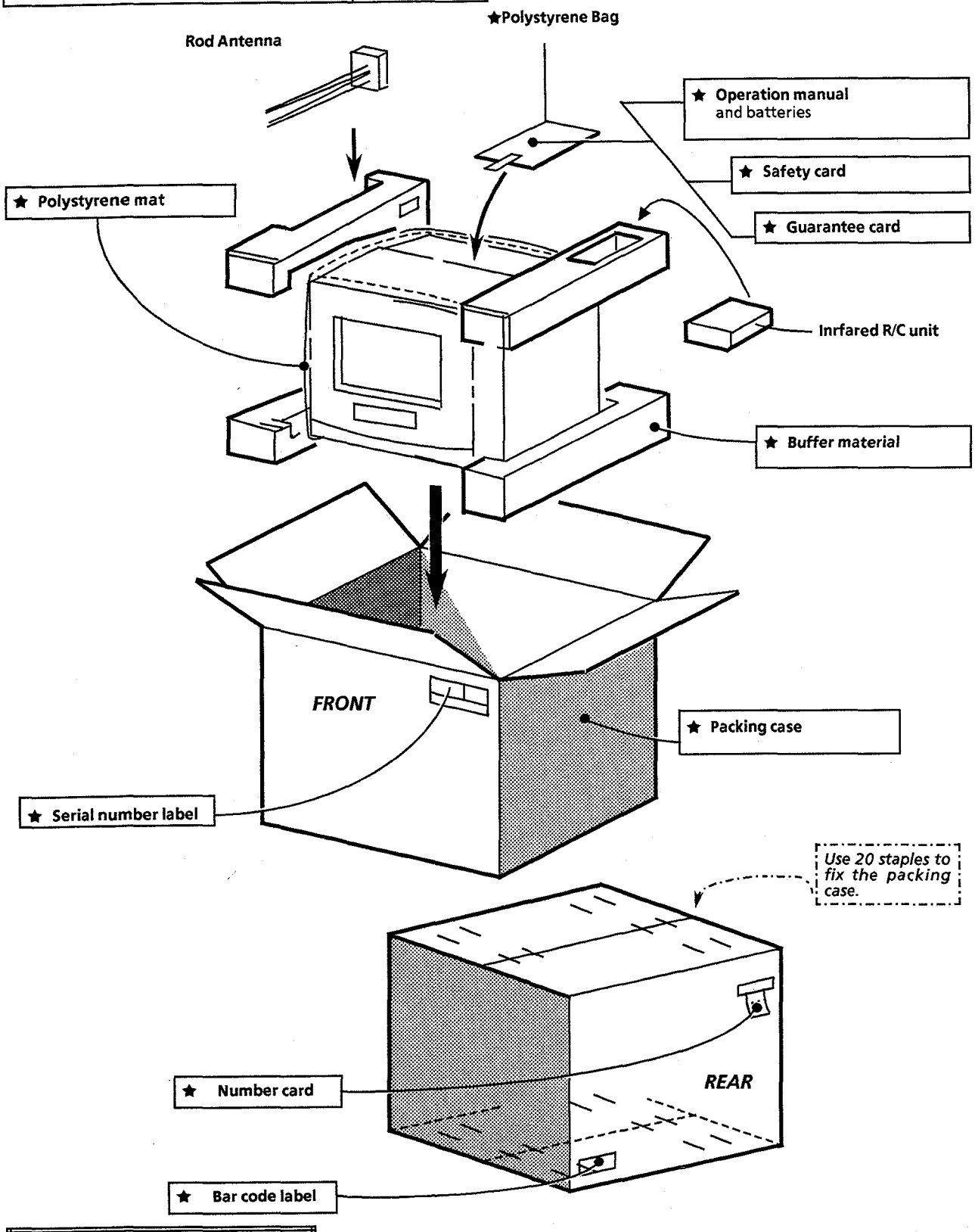
SPAKC5949PEZZ	-	Packing Case *(13VT-G60)*	—
SPAKC5951PEZZ	-	Packing Case *(13VT-G80)*	—
SPAKC5948PEZZ	-	Packing Case *(13VT-G100)*	—
SPAKC5950PEZZ	-	Packing Case *(13VT-G120)*	—
SPAKP0095PEZZ	-	Polyethylene Mat	—
SPAKX2524PEZZ	-	Buffer Material	—
TLABK0002PEZZ	-	Label	—

End of Packing Parts

PACKING OF THE SET

•Setting positions of the knobs

Power SW	OFF
CHANNEL	2CH
S-VOLUME	ABOUT 20/50



MARK ★ : Not replacement items.

13VT-G60/80
13VT-G100/120

SHARP

T9924-S
Printed in Japan
W/S YO. KG